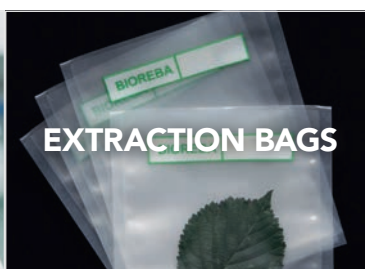




# Products and Services



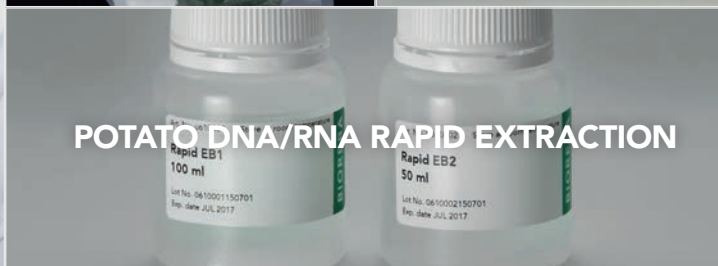
PRODUCTS



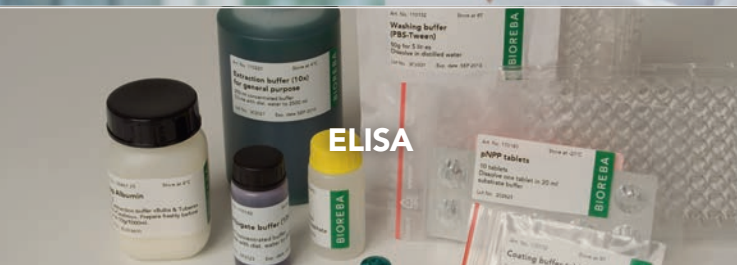
EXTRACTION BAGS



HOMEX



POTATO DNA/RNA RAPID EXTRACTION



ELISA



SWISS ACCREDITATION  
TESTING SERVICE



PCR



PLANT PATHOGENS



CROPS



SWISS TESTING LABS  
Association of Swiss Laboratories  
Verband Schweizer Laboratorien  
Association des Laboratoires Suisses  
Associazione dei Laboratori Svizzeri



AGRISTIP



# The Company



**We have a certified Quality-Management System.**

BIOREBA AG was the first company worldwide to produce and commercialize ELISA reagents for plant virus diagnostics in 1980. It is an independent company that was started in close collaboration with Agroscope, the Swiss centre of excellence for research in the agriculture and food sector. Since then, BIOREBA has established cooperation with numerous other research institutes and universities in many countries. Since its foundation almost four decades ago, the company has steadily grown and built a reputation for high quality diagnostics. Today, the research community and diagnostic laboratories around the world rely on our products for testing potatoes, grapevines, fruit trees, small fruits, vegetables, ornamentals and field crops.

Our philosophy is to provide our customers with high quality products and services to address their special diagnostic questions. Customers benefit from our expert knowledge and long-standing experience in developing and introducing complete assays for the detection of plant pathogens. BIOREBA has well-equipped facilities for R & D activities and production of these test systems as well as an accredited testing laboratory for serving customers with serological and molecular analyses of plant pathogens. The company also provides special equipment and disposables for the preparation of plant samples and liquid handling.

BIOREBA products are available worldwide. The sales and marketing department and an extensive distributor-network ensure a quick response to customer inquiries and prompt product delivery. Our well-trained staff is committed maintaining high quality standards.

BIOREBA has been awarded the internationally recognized certificate of Quality Management System ISO 9001. Furthermore, our testing service laboratory has been accredited according to ISO/IEC 17025 for analyses of plant pathogens. Both certificates shall give us the incentive to continue serving you with best quality products and helping you growing healthy crops.

## **BIOREBA AG**

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## Sample Preparation

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### Extraction Bags



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### Extraction Devices



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### Extraction Buffers



## Plant Pathogen Diagnostic Tests

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### AgriStrip – Lateral flow test



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### ELISA



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### PCR



## Additional Products

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### Buffers, Substrates



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### Chemicals, Consumables



## Services

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### Testing Service



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### Quality Management



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### Distribution Worldwide



# Extraction Bags



Our homogenizing system includes four different extraction bags in different sizes, with or without a synthetic intermediate layer. All extraction bags are ideal for tissue extraction to be used in ELISA and PCR.

## The characteristics of our extraction bags are:

- Optimal sampling and sample preparation (samples can be labeled and stored)
- Optimal homogenization
- Optimal filtration of the plant extracts (bags with synthetic intermediate layer)
- Optimal recovery of the plant sap
- No cross-contamination between test samples
- Optimal for homogenizing with our HOMEX 6
- Suitable for homogenizing leaves, sprouts, roots, seeds, woody samples, sieved soil

| Art. No. | Product                                                                                                                                                                                                                                                                                          | Size |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 430100   | <b>Extraction bags Universal 12 x 15 cm</b><br>for our standard rack <ul style="list-style-type: none"> <li>• with synthetic intermediate layer for optimal filtration, heavy duty plastic for testing all kind of samples</li> <li>• max. filling volume for use with HOMEX 6: 10 ml</li> </ul> | 100  |
| 480100   | <b>Extraction bags Universal-U-form 12 x 12 cm</b><br>for our standard rack <ul style="list-style-type: none"> <li>• heavy duty plastic with U-formed compartment with synthetic intermediate layer for testing seeds</li> <li>• max. filling volume for use with HOMEX 6: 4 ml</li> </ul>       | 100  |
| 470100   | <b>Extraction bags Universal-Long 15 x 28 cm</b><br>for our rack 4/25 <ul style="list-style-type: none"> <li>• heavy duty plastic with 15 mm wide sealing borders on bottom and sides with synthetic intermediate layer</li> <li>• max. filling volume for use with HOMEX 6: 50 ml</li> </ul>    | 100  |
| 420100   | <b>Extraction bags Long 15 x 40 cm</b> <ul style="list-style-type: none"> <li>• heavy duty plastic without intermediate layer for testing long leaves</li> <li>• max. filling volume for use with HOMEX 6: 200 ml</li> </ul>                                                                     | 100  |

Note: Standard packaging size is 10 x 100 units.



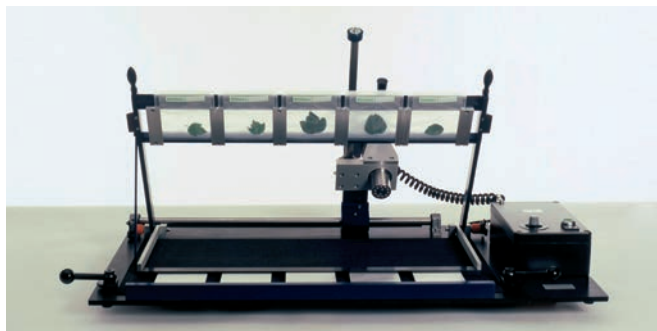
# Extraction Devices



Our homogenizers are ideal for tissue extraction for samples to be used in ELISA and PCR. Samples are contained within extraction bags throughout the sample processing, thereby eliminating cross-contamination and the need of washing between samples.

## HOMEX 6

- Semi-automated homogenizer
- Available with 230 V or 115 V external power supply
- Tissue samples of different thickness may be homogenized
- About 250 samples per hour can be processed
- Can be equipped with two different racks (see below) to hold different sizes of BIOREBA extraction bags
- Changing the rack is fast and easy



## Standard rack

- Our HOMEX 6 is equipped with the standard rack
- Holds 1–5 BIOREBA extraction bags Universal or Universal-U-form



## Rack 4/25

- Optional rack for HOMEX 6
- Holds 1–4 BIOREBA extraction bags Universal-Long



## Homogenizer hand model

- Suitable for small sample numbers and for samples of softer tissue (leaves, sprouts, flowers etc.)
- Optimal grinding
- Can be used with all types of BIOREBA extraction bags

# Extraction Devices

NEW



## HOMEX XS

- Automated easy-to-use system
- Space saving and low weight machine
- High efficiency with homogenization of more than 100 samples per hour
- For homogenization of all kinds of tissues without sharp edges
- Filtered extract can be used for analyses such as ELISA, PCR or other analytical applications
- Optimized for BIORÉBA extraction bags Universal
- Adjustable rotation speed
- Adjustable homogenization time
- Stop timer function
- Ergonomic handling



| Product                                      | Art. No. | Size |
|----------------------------------------------|----------|------|
| HOMEX 6 with one rack of your choice (115 V) | 400004   | 1    |
| HOMEX 6 with one rack of your choice (230 V) | 400005   | 1    |
| Standard rack for HOMEX 6                    | 400014   | 1    |
| Rack 4/25 for HOMEX 6                        | 400016   | 1    |
| Homogenizer hand model                       | 400010   | 1    |
| HOMEX XS                                     | 400008   | 1    |

| Replacement parts for HOMEX 6             | Art. No. | Size |
|-------------------------------------------|----------|------|
| Complete head with ring and ball bearings | 400001   | 1    |
| Aluminium bars for standard rack          | 409999   | 6    |
| Handle with base plate                    | 409998   | 1    |



# Potato DNA/RNA rapid extraction set



## Nucleic acid extraction for potato samples

The potato DNA/RNA rapid extraction set is designed for phytodiagnostic use. It enables rapid and easy extraction of DNA and RNA from potato tuber and leaf samples. The extraction requires the use of two buffers only. Time consuming processing steps are eliminated. An especially cost efficient advantage is that the Potato DNA/RNA rapid extraction set requires no expensive machines.

## The characteristics of our Potato DNA/RNA rapid extraction set are:

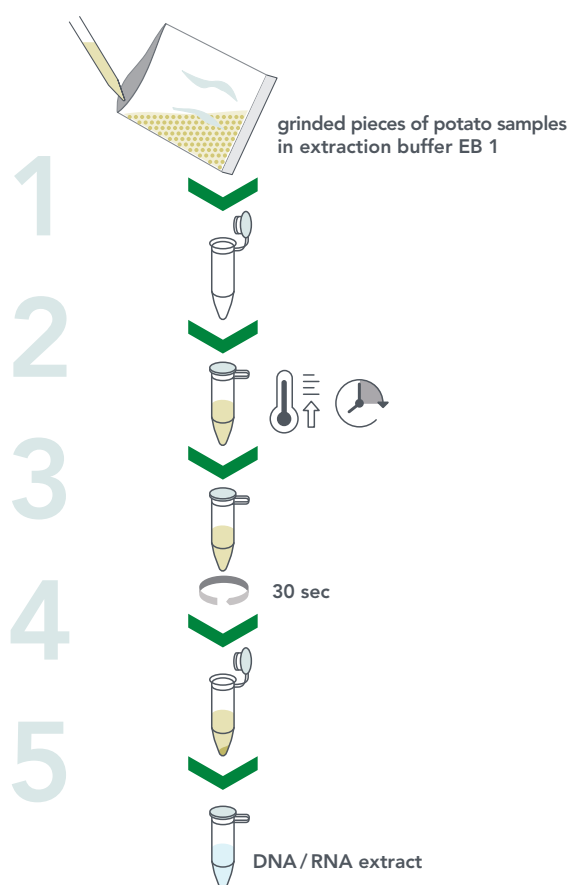
- Fast extraction in 30 minutes only
- Easy to use: only 5 steps
- Optimized for potato samples
- No specialised machines are needed
- Room temperature storage and shipment
- Total nucleic acids – extracts DNA and RNA in one procedure
- Validated and accredited method according to ISO/IEC 17025
- Extracted nucleic acids can be used for diagnostic tests such as real time PCR and PCR macroarray
- For pools of up to 25 potato samples
- Assays for viruses, bacteria and fungi

Storage and shipment of the sets are at room temperature for convenient handling.

The set includes all reagents and extraction bags needed for DNA/RNA extraction. Separate samples for DNA and RNA extraction are not required as the set extracts total nucleic acids. Downstream applications such as real-time PCR or PCR macroarray can be performed for the detection of viruses, bacteria or fungi using one extract.

The extraction method with Potato DNA/RNA rapid extraction set has been validated and accredited according to ISO/IEC 17025. The method has been approved for seed potato certification.

Four set sizes are available for pools of 10 or up to 25 potato samples and for 96 or 192 extractions respectively (see next page).



| Art. No. | Product                                                                                                                                                                                                                                                                                                                              | No. of reactions | Amount of samples (potatoes) |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|
| 810003   | Potato DNA/RNA rapid extraction set 96 / 10x<br>for 96 extractions (Pool size: up to 10 tuber samples)<br>set includes: <ul style="list-style-type: none"> <li>• Rapid extraction buffer EB 1 (p) 100ml</li> <li>• Rapid extraction buffer EB 2 (p) 50 ml</li> <li>• Extraction bags Standard 12x15 cm 100 pcs</li> </ul>            | 96               | up to 10                     |
| 810004   | Potato DNA/RNA rapid extraction set 96 / 25x<br>for 96 extractions (Pool size: up to 25 tuber samples)<br>set includes: <ul style="list-style-type: none"> <li>• Rapid extraction buffer EB 1 (p) 200ml</li> <li>• Rapid extraction buffer EB 2 (p) 50 ml</li> <li>• Extraction bags Standard 12x15 cm 100 pcs</li> </ul>            | 96               | up to 25                     |
| 810005   | Potato DNA/RNA rapid extraction set 192 / 10x<br>for 192 extractions (Pool size: up to 10 tuber samples)<br>set includes: <ul style="list-style-type: none"> <li>• Rapid extraction buffer EB 1 (p) 200ml</li> <li>• Rapid extraction buffer EB 2 (p) 100 ml</li> <li>• Extraction bags Standard 12x15 cm 2 x 100 pcs</li> </ul>     | 192              | up to 10                     |
| 810006   | Potato DNA/RNA rapid extraction set 192 / 25x<br>for 192 extractions (Pool size: up to 25 tuber samples)<br>set includes: <ul style="list-style-type: none"> <li>• Rapid extraction buffer EB 1 (p) 2 x 200ml</li> <li>• Rapid extraction buffer EB 2 (p) 100 ml</li> <li>• Extraction bags Standard 12x15 cm 2 x 100 pcs</li> </ul> | 192              | up to 25                     |

## Extraction buffers for ELISA

| Product                                | Art. No. | Size       | sufficient for |
|----------------------------------------|----------|------------|----------------|
| Extraction buffer «General» (10x)      | 110120   | 500 ml     | 1000 samples** |
| Extraction buffer «Grapevine» (5x)     | 110123   | 2 x 500 ml | 1000 samples** |
| Extraction buffer «Bulbs & Tubers» *** | 110122   | 500 ml     | 1000 samples** |
| Extraction buffer «Caulimo» ****       | 110124   | 500 ml     | 1000 samples   |
| Extraction buffer «Caulimo» ****       | 110224   | 250 ml     | 500 samples    |

\*\* Calculated with 5 ml extraction buffer per sample of 0.25 g

\*\*\* Composed of 500 ml extraction buffer «General» (10x) and 50 g egg albumin

\*\*\*\* Includes extraction buffer «Caulimo» (10x), urea, and egg albumin

# Plant Pathogen Diagnostic Tests

Our AgriStrip products are listed in alphabetical order on page 15. Our ELISA reagents, reagent sets and complete kits are listed in alphabetical order on page 17–42. Our PCR products are listed on page 43–46. The table below illustrates the prevalence of the pathogens as related to different crop groups.

| Pathogen name                                     | Abbreviation     | AgriStrip | ELISA | qPCR | PCR macroarray |
|---------------------------------------------------|------------------|-----------|-------|------|----------------|
| <b>Potatoes</b>                                   |                  |           |       |      |                |
| Alfalfa mosaic virus                              | AMV              |           | •     |      |                |
| Andean potato latent virus                        | APLV             |           | •     |      |                |
| Andean potato mottle virus                        | APMoV            |           | •     |      |                |
| Potato leafroll virus                             | PLRV             |           | •     | •    | •              |
| Potato mop-top virus                              | PMTV             |           | •     |      | •              |
| Poty group                                        | Poty group       |           | •     |      |                |
| Potato virus A                                    | PVA              | •         | •     | •    | •              |
| Potato virus M                                    | PVM              | •         | •     | •    | •              |
| Potato virus S                                    | PVS              | •         | •     |      | •              |
| Potato virus V                                    | PVV              |           | •     |      |                |
| Potato virus X                                    | PVX              | •         | •     |      | •              |
| Potato virus Y (monoclonal cocktail)              | PVY-mono cock    | •         | •     | •    | •              |
| Potato virus Y (monoclonal)                       | PVY-mono         | •         | •     | •    | •              |
| Potato virus Y (polyclonal)                       | PVY-poly         | •         | •     | •    | •              |
| Potato virus Y-necrotic                           | PVY-necrotic     | •         | •     | •    | •              |
| <i>Ralstonia solanacearum</i>                     | Rs               | •         | •     |      |                |
| <i>Spongospora subterranea f.sp. subterranea</i>  | Sss              | •         | •     |      |                |
| Tomato black ring virus                           | TBRV             |           | •     |      |                |
| Tobacco necrosis virus                            | TNV              |           | •     |      |                |
| Tomato spotted wilt virus                         | TSWV             | •         | •     |      |                |
| <i>Verticillium spp.</i>                          | Verticillium     |           | •     |      |                |
| <b>Grapevines</b>                                 |                  |           |       |      |                |
| Arabis mosaic virus                               | ArMV             |           | •     |      |                |
| ArMV+GFLV                                         | ArMV+GFLV        |           | •     |      |                |
| Grapevine fanleaf virus                           | GFLV             |           | •     |      |                |
| Grapevine fleck virus                             | GFkV             |           | •     |      |                |
| Grapevine leafroll assoc. virus 1                 | GLRaV-1          |           | •     |      |                |
| Grapevine leafroll assoc. virus 1+3               | GLRaV-1+3        |           | •     |      |                |
| Grapevine leafroll assoc. virus 2                 | GLRaV-2          |           | •     |      |                |
| Grapevine leafroll assoc. virus 3                 | GLRaV-3          |           | •     |      |                |
| Grapevine leafroll assoc. virus generic 4 strains | GLRaV-4 strains  |           | •     |      |                |
| Grapevine leafroll assoc. virus 4 strain 6        | GLRaV-4 strain 6 |           | •     |      |                |
| Grapevine pinot gris virus                        | GPGV             |           | •     |      |                |
| Grapevine virus A                                 | GVA              |           | •     |      |                |
| Grapevine red blotch virus                        | GRBV             |           |       | •    |                |
| Raspberry ringspot virus-ch                       | RpRSV-ch         |           | •     |      |                |
| Raspberry ringspot virus-g                        | RpRSV-g          |           | •     |      |                |
| Strawberry latent ringspot virus                  | SLRSV            |           | •     |      |                |
| Tomato black ring virus                           | TBRV             |           | •     |      |                |
| Tomato ringspot virus                             | ToRSV            |           | •     |      |                |
| Tomato ringspot virus-Ch                          | ToRSV-Ch         |           | •     |      |                |
| Tobacco ringspot virus                            | TRSV             |           | •     |      |                |
| <b>Vegetables</b>                                 |                  |           |       |      |                |
| <i>Acidovorax avenae subsp. citrulli</i>          | Aac              | •         | •     |      |                |
| African cassava mosaic virus                      | ACMV (TYLCV)     |           | •     |      |                |
| Bean common mosaic virus                          | BCMV             |           | •     |      |                |
| Bean common mosaic necrosis virus                 | BCMNV            |           | •     |      |                |
| Bean golden mosaic virus                          | BGMV (TYLCV)     |           | •     |      |                |
| Beet necrotic yellow vein virus                   | BNYVV            |           | •     |      |                |
| Cauliflower mosaic virus                          | CaMV             |           | •     |      |                |
| Cucumber green mottle mosaic virus                | CGMMV            |           | •     |      |                |
| Cucumber mosaic virus                             | CMV              | •         | •     |      |                |

| Pathogen name                           | Abbreviation        | AgriStrip | ELISA | qPCR | PCR macroarray |
|-----------------------------------------|---------------------|-----------|-------|------|----------------|
| <b>Vegetables</b>                       |                     |           |       |      |                |
| Cucurbit yellow stunting disorder virus | CYSDV               |           | •     |      |                |
| Erysimum latent virus                   | ErLV                |           | •     |      |                |
| Garlic common latent virus              | GCLV                |           | •     |      |                |
| Lettuce mosaic virus                    | LMV                 | •         | •     |      |                |
| Leek yellow stripe virus                | LYSV                |           | •     |      |                |
| Mirafiori lettuce big-vein virus        | MiLBVV              |           | •     |      |                |
| Onion yellow dwarf virus                | OYDV                |           | •     |      |                |
| Pepino mosaic virus                     | PepMV               | •         | •     |      |                |
| Pepper mild mottle virus                | PMMoV               | •         | •     |      |                |
| Poty group                              | Poty group          |           | •     |      |                |
| Papaya ringspot virus                   | PRSV (=WMV-1)       |           | •     |      |                |
| Potato virus X                          | PVX                 | •         | •     |      |                |
| Potato virus Y                          | PVY                 | •         | •     |      |                |
| Radish mosaic virus                     | RaMV                |           | •     |      |                |
| Soybean mosaic virus                    | SMV                 |           | •     |      |                |
| Squash leaf curl virus                  | SLCV                |           | •     |      |                |
| Squash mosaic virus                     | SqMV                |           | •     |      |                |
| Tomato bushy stunt virus                | TBSV                |           | •     |      |                |
| Tomato chlorotic spot virus             | TCSV (TSWV)         |           | •     |      |                |
| Tobacco mosaic virus                    | TMV                 | •         | •     |      |                |
| Tobacco necrosis virus                  | TNV                 |           | •     |      |                |
| Tomato apex necrosis virus              | ToANV               |           | •     |      |                |
| Tomato mosaic virus                     | ToMV                | •         | •     |      |                |
| Tomato mottle virus                     | ToMoV (TYLCV)       |           | •     |      |                |
| Tomato ringspot virus                   | ToRSV               |           | •     |      |                |
| Tomato ringspot virus-Ch                | ToRSV-Ch            |           | •     |      |                |
| Tospovirus broad-spectrum (I,II,III)    | Tospo (I,II,III)    |           | •     |      |                |
| Tobacco streak virus                    | TSV                 |           | •     |      |                |
| Tomato spotted wilt virus               | TSWV                | •         | •     |      |                |
| Turnip mosaic virus                     | TuMV                |           | •     |      |                |
| Tomato yellow leaf curl virus           | TYLCV               |           | •     |      |                |
| Turnip yellow mosaic virus              | TYMV                |           | •     |      |                |
| <i>Verticillium spp.</i>                | Verticillium        |           | •     |      |                |
| Watermelon mosaic virus 1               | WMV-1 (=PRSV)       |           | •     |      |                |
| Watermelon mosaic virus 2               | WMV-2               |           | •     |      |                |
| Zucchini yellow mosaic virus            | ZYMV                |           | •     |      |                |
| <b>Field Crops</b>                      |                     |           |       |      |                |
| Alfalfa mosaic virus                    | AMV                 |           | •     |      |                |
| Barley yellow dwarf virus-B             | BYDV-B              |           | •     |      |                |
| Barley yellow dwarf virus-F             | BYDV-F              |           | •     |      |                |
| Barley yellow dwarf virus-RPV           | BYDV-RPV            |           | •     |      |                |
| Beet necrotic yellow vein virus         | BNYVV               |           | •     |      |                |
| Cauliflower mosaic virus                | CaMV                |           | •     |      |                |
| Cucumber mosaic virus                   | CMV                 | •         | •     |      |                |
| Cereal yellow dwarf virus-RPV           | CYDV-RPV (BYDV-RPV) |           | •     |      |                |
| Groundnut ringspot virus                | GRSV (TSWV)         |           | •     |      |                |
| Maize chlorotic mottle virus            | MCMV                | •         | •     |      |                |
| Maize dwarf mosaic virus                | MDMV                |           | •     |      |                |
| Petunia asteroid mosaic virus           | PeAMV               |           | •     |      |                |
| Poty group                              | Poty group          |           | •     |      |                |
| Potato virus X                          | PVX                 | •         | •     |      |                |
| Potato virus Y                          | PVY                 | •         | •     |      |                |
| Radish mosaic virus                     | RaMV                |           | •     |      |                |
| Sugarcane mosaic virus                  | SCMV                |           | •     |      |                |
| Tobacco mosaic virus                    | TMV                 | •         | •     |      |                |
| Tobacco necrosis virus                  | TNV                 |           | •     |      |                |
| Tobacco streak virus                    | TSV                 |           | •     |      |                |
| Tomato spotted wilt virus               | TSWV                | •         | •     |      |                |
| Turnip yellow mosaic virus              | TYMV                |           | •     |      |                |

| Pathogen name                             | Abbreviation     | AgriStrip | ELISA | qPCR | PCR macroarray |
|-------------------------------------------|------------------|-----------|-------|------|----------------|
| <b>Ornamentals</b>                        |                  |           |       |      |                |
| <i>Acidovorax avenae subsp. cattleyae</i> | Aacat            |           | •     |      |                |
| Alfalfa mosaic virus                      | AMV              |           | •     |      |                |
| Apple mosaic virus                        | ApMV             |           | •     |      |                |
| Arabis mosaic virus                       | ArMV             |           | •     |      |                |
| Calibrachoa mottle virus                  | CbMV             |           | •     |      |                |
| Cucumber mosaic virus                     | CMV              | •         | •     |      |                |
| Erysimum latent virus                     | ErLV             |           | •     |      |                |
| Impatiens necrotic spot virus             | INSV             | •         | •     |      |                |
| Petunia asteroid mosaic virus             | PeAMV            |           | •     |      |                |
| Pelargonium flower-break virus            | PFBV             |           | •     |      |                |
| Pelargonium leaf curl virus               | PLCV             |           | •     |      |                |
| Pelargonium line pattern virus            | PLPV             |           | •     |      |                |
| Prunus necrotic ringspot virus            | PNRSV            |           | •     |      |                |
| Poty group                                | Poty group       |           | •     |      |                |
| Potato virus A                            | PVA              | •         | •     |      |                |
| Potato virus X                            | PVX              | •         | •     |      |                |
| Potato virus Y                            | PVY              | •         | •     |      |                |
| <i>Ralstonia solanacearum</i>             | Rs               | •         | •     |      |                |
| Strawberry latent ringspot virus          | SLRSV            |           | •     |      |                |
| Tobacco mosaic virus                      | TMV              | •         | •     |      |                |
| Tobacco necrosis virus                    | TNV              |           | •     |      |                |
| Tomato mosaic virus                       | ToMV             |           | •     |      |                |
| Tomato ringspot virus                     | ToRSV            |           | •     |      |                |
| Tomato ringspot virus-Ch                  | ToRSV-Ch         |           | •     |      |                |
| Tospovirus broad-spectrum (I,II,III)      | Tospo (I,II,III) |           | •     |      |                |
| Tobacco ringspot virus                    | TRSV             |           | •     |      |                |
| Tobacco streak virus                      | TSV              |           | •     |      |                |
| Tomato spotted wilt virus                 | TSWV             | •         | •     |      |                |
| <i>Verticillium spp.</i>                  | Verticillium     |           | •     |      |                |
| <i>Xanthom. campestris pv. pelargonii</i> | Xcp (Xh)         |           | •     |      |                |
| <b>Fruit Trees &amp; Small Fruits</b>     |                  |           |       |      |                |
| Apple chlorotic leaf spot virus           | ACLSV            |           | •     |      |                |
| Apple mosaic virus                        | ApMV             |           | •     |      |                |
| Apple proliferation phytoplasma           | ApP              |           | •     |      |                |
| Arabis mosaic virus                       | ArMV             |           | •     |      |                |
| Apple stem grooving virus                 | ASGV             |           | •     |      |                |
| Apple stem pitting virus                  | ASPV             |           | •     |      |                |
| Cherry leaf roll virus-ch                 | CLRV-ch          |           | •     |      |                |
| Cherry leaf roll virus-e                  | CLRV-e           |           | •     |      |                |
| Citrus tristeza virus                     | CTV              |           | •     |      |                |
| <i>Erwinia amylovora</i>                  | Ea               | •         |       |      |                |
| Petunia asteroid mosaic virus             | PeAMV            |           | •     |      |                |
| Papaya ringspot virus                     | PRSV (=WMV-1)    |           | •     |      |                |
| Plum pox virus (Sharka)                   | PPV              | •         | •     |      |                |
| Prune dwarf virus                         | PDV              |           | •     |      |                |
| Prunus necrotic ringspot virus            | PNRSV            |           | •     |      |                |
| Poty group                                | Poty group       |           | •     |      |                |
| Raspberry bushy dwarf virus               | RBDV             |           | •     |      |                |
| Raspberry ringspot virus-ch               | RpRSV-ch         |           | •     |      |                |
| Soybean mosaic virus                      | SMV              |           | •     |      |                |
| Strawberry latent ringspot virus          | SLRSV            |           | •     |      |                |
| Strawberry mild yellow edge PV            | SMYEPV           |           | •     |      |                |
| Tomato ringspot virus-ch                  | ToRSV-ch         |           | •     |      |                |
| Tomato ringspot virus                     | ToRSV            |           | •     |      |                |
| Tobacco ringspot virus                    | TRSV             |           | •     |      |                |
| Tobacco streak virus                      | TSV              |           | •     |      |                |
| <i>Verticillium spp.</i>                  | Verticillium     |           | •     |      |                |
| <i>Xanthomonas fragariae</i>              | Xfr              |           | •     |      |                |



# AgriStrip – Lateral flow test

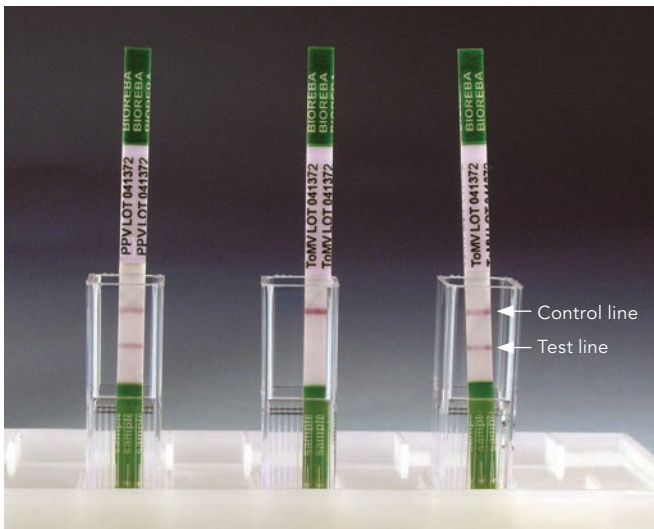


**The rapid one-step assay for the detection of plant pathogens**

AgriStrip, developed and produced by BIOREBA, is based on lateral flow immunochromatography using specific antibodies. The AgriStrip is intended to confirm the presence of a specific pathogen on-site in suspicious plant samples within minutes.

**The characteristics of our AgriStrip are:**

- The performance of the test is very easy and fast
- Cost effective
- No need of special laboratory equipment
- Especially suitable when testing is required on-site, such as in greenhouses or fields
- Test strips can be kept as permanent records
- Available as Complete kit for 25 assays or as set with 25 or 100 strips, respectively



## AgriStrip Complete Kit 25

| Component                                | Assays |  |
|------------------------------------------|--------|--|
|                                          | 25     |  |
| AgriStrips                               | 25 pcs |  |
| AgriStrip Extraction buffer ready-to-use | 100 ml |  |
| Pipettes, disposable                     | 25 pcs |  |
| Extraction bags Universal                | 25 pcs |  |
| Cuvettes, disposable                     | 25 pcs |  |
| Cuvette rack                             | 1 pc   |  |

## AgriStrip Set

| Component                                | Assays |         |
|------------------------------------------|--------|---------|
|                                          | 25     | 100     |
| AgriStrips                               | 25 pcs | 100 pcs |
| AgriStrip Extraction buffer ready-to-use | 100 ml | 500 ml  |

## Optional Products

| Art. No. |                                 | Size |
|----------|---------------------------------|------|
| 2166     | Cuvette rack, holds 12 cuvettes | 1    |
| 2534     | Cuvettes, disposable            | 100  |
| 2292     | Pipettes, disposable            | 500  |
| 430100   | Extraction bags Universal       | 100  |
| 400010   | Homogenizer hand model          | 1    |



| Pathogen                                                                               | Abbr. | Art. No. | Format                    | Assays |
|----------------------------------------------------------------------------------------|-------|----------|---------------------------|--------|
| <i>Acidovorax avenae</i><br>subsp. <i>citrulli</i>                                     | Aac   | 161981   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 161982   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 161983   | AgriStrip Set 100         | 100    |
| Cucumber mosaic virus                                                                  | CMV   | 160681   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 160682   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 160683   | AgriStrip Set 100         | 100    |
| <i>Erwinia amylovora</i><br>(Fire blight)                                              | Ea    | 153081   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 153082   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 153083   | AgriStrip Set 100         | 100    |
| Impatiens necrotic spot virus                                                          | INSV  | 190281   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 190282   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 190283   | AgriStrip Set 100         | 100    |
| Lettuce mosaic virus                                                                   | LMV   | 160581   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 160582   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 160583   | AgriStrip Set 100         | 100    |
| Maize chlorotic mottle virus                                                           | MCMV  | 140781   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 140782   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 140783   | AgriStrip Set 100         | 100    |
| Pepino mosaic virus                                                                    | PepMV | 161581   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 161582   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 161583   | AgriStrip Set 100         | 100    |
| Pepper mild mottle virus                                                               | PMMoV | 161781   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 161782   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 161783   | AgriStrip Set 100         | 100    |
| Plum pox virus<br>(Sharka)                                                             | PPV   | 150581   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 150582   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 150583   | AgriStrip Set 100         | 100    |
| Potato virus AgriStrip Varsity kit 5x5 assays                                          |       | 114081   | AgriStrip Complete kit 25 | 25     |
| Potato virus A                                                                         | PVA   | 112181   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 112182   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 112183   | AgriStrip Set 100         | 100    |
| Potato virus M                                                                         | PVM   | 112281   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 112282   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 112283   | AgriStrip Set 100         | 100    |
| Potato virus S                                                                         | PVS   | 110381   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 110382   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 110383   | AgriStrip Set 100         | 100    |
| Potato virus X                                                                         | PVX   | 110481   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 110482   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 110483   | AgriStrip Set 100         | 100    |
| Potato virus Y                                                                         | PVY   | 112981   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 112982   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 112983   | AgriStrip Set 100         | 100    |
| <i>Ralstonia solanacearum</i>                                                          | Rs    | 170581   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 170582   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 170583   | AgriStrip Set 100         | 100    |
| <i>Spongospora subterranea</i><br>f.sp. <i>subterranea</i><br>(Powdery scab of potato) | Sss   | 111181   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 111182   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 111183   | AgriStrip Set 100         | 100    |
| Tobacco mosaic virus                                                                   | TMV   | 190481   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 190482   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 190483   | AgriStrip Set 100         | 100    |
| Tomato mosaic virus                                                                    | ToMV  | 152681   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 152682   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 152683   | AgriStrip Set 100         | 100    |
| Tomato spotted wilt virus                                                              | TSWV  | 190181   | AgriStrip Complete kit 25 | 25     |
|                                                                                        |       | 190182   | AgriStrip Set 25          | 25     |
|                                                                                        |       | 190183   | AgriStrip Set 100         | 100    |

# ELISA Reagents, Sets and Kits



## Individual ELISA Reagents

IgG and/or conjugate for the working volume of 200 µl/test/well available for 96, 480 or 960 assays.



## ELISA Reagent Sets

| Component         | Assays |        |                   |
|-------------------|--------|--------|-------------------|
|                   | 480    | 960    | 5000 <sup>®</sup> |
| IgG               | 0.1 ml | 0.2 ml | 1 ml              |
| Conjugate         | 0.1 ml | 0.2 ml | 1 ml              |
| Positive control  | 2.5 ml | 2.5 ml | 5 x 2.5 ml        |
| Negative control  | 2.5 ml | 2.5 ml | 5 x 2.5 ml        |
| Microtiter plates | 5      | 10     | 60                |

<sup>®</sup> available for potato viruses PLRV, PVA, PVM, PVS, PVX and PVY.



## ELISA Complete Kits

| Component                | Assays           |                   |                    |                   |
|--------------------------|------------------|-------------------|--------------------|-------------------|
|                          | 96               | 480               | 960                | 5000 <sup>®</sup> |
| IgG                      | 0.025 ml         | 0.1 ml            | 0.2 ml             | 1 ml              |
| Conjugate                | 0.025 ml         | 0.1 ml            | 0.2 ml             | 1 ml              |
| Positive control         | 2.5 ml           | 2.5 ml            | 2.5 ml             | 5 x 2.5 ml        |
| Negative control         | 2.5 ml           | 2.5 ml            | 2.5 ml             | 5 x 2.5 ml        |
| Extraction buffer (10x)* | 50 ml            | 250 ml            | 500 ml             | 5 x 500 ml        |
| Coating buffer           | 1 tablet         | 1 tablet          | 2 tablets          | 10 tablets        |
| Conjugate buffer (10x)   | 2 ml             | 10 ml             | 20 ml              | 100 ml            |
| Substrate buffer (5x)    | 4 ml             | 20 ml             | 2 x 20 ml          | 200 ml            |
| Washing buffer           | 1 tablet         | 1 pouch           | 2 pouches          | 2 containers      |
| Substrate (pNPP)**       | 4 tablets (5 mg) | 5 tablets (20 mg) | 10 tablets (20 mg) | bulk powder (5 g) |
| Egg Albumin**            | 5 g              | 25 g              | 50 g               | 250 g             |
| Microtiter plates        | 1                | 5                 | 10                 | 60                |

\* For grapevine testing, twice as much buffer is included since the concentration is 5x

\*\* Is included only with the extraction buffer «Bulbs & Tubers»

| Pathogen                                                              | Abbr. | Art. No.                          | Reagent form     | Size     | Assays |
|-----------------------------------------------------------------------|-------|-----------------------------------|------------------|----------|--------|
| <b>Acidovorax avenae subsp. citrulli</b><br>polyclonal - polyclonal*  | Aac   | 161912                            | IgG              | 0.2 ml   | 1000   |
|                                                                       |       | 161915                            | IgG              | 0.1 ml   | 500    |
|                                                                       |       | 161919                            | IgG              | 0.025 ml | 100    |
|                                                                       |       | 161922                            | Conjugate        | 0.2 ml   | 1000   |
|                                                                       |       | 161925                            | Conjugate        | 0.1 ml   | 500    |
|                                                                       |       | 161929                            | Conjugate        | 0.025 ml | 100    |
|                                                                       |       | 161953                            | Positive control | 2.5 ml   | 12     |
|                                                                       |       | 180043                            | Negative control | 2.5 ml   | 12     |
|                                                                       |       | 161962                            | Reagent set 960  |          | 960    |
|                                                                       |       | 161965                            | Reagent set 480  |          | 480    |
|                                                                       |       | 161972                            | Complete kit 960 |          | 960    |
|                                                                       |       | 161975                            | Complete kit 480 |          | 480    |
|                                                                       |       | 161977                            | Complete kit 96  |          | 96     |
| <b>Acidovorax avenae subsp. cattleyaet</b><br>polyclonal - polyclonal | Aacat | 170612                            | IgG              | 0.2 ml   | 1000   |
|                                                                       |       | 170615                            | IgG              | 0.1 ml   | 500    |
|                                                                       |       | 170619                            | IgG              | 0.025 ml | 100    |
|                                                                       |       | 170622                            | Conjugate        | 0.2 ml   | 1000   |
|                                                                       |       | 170625                            | Conjugate        | 0.1 ml   | 500    |
|                                                                       |       | 170629                            | Conjugate        | 0.025 ml | 100    |
|                                                                       |       | 170653                            | Positive control | 2.5 ml   | 12     |
|                                                                       |       | 180043                            | Negative control | 2.5 ml   | 12     |
|                                                                       |       | 170662                            | Reagent set 960  |          | 960    |
|                                                                       |       | 170665                            | Reagent set 480  |          | 480    |
|                                                                       |       | 170672                            | Complete kit 960 |          | 960    |
|                                                                       |       | 170675                            | Complete kit 480 |          | 480    |
|                                                                       |       | 170677                            | Complete kit 96  |          | 96     |
| <b>African cassava mosaic virus</b>                                   | ACMV  | see Tomato yellow leaf curl virus |                  |          |        |
| <b>Alfalfa mosaic virus</b><br>polyclonal - polyclonal                | AMV   | 140512                            | IgG              | 0.2 ml   | 1000   |
|                                                                       |       | 140515                            | IgG              | 0.1 ml   | 500    |
|                                                                       |       | 140519                            | IgG              | 0.025 ml | 100    |
|                                                                       |       | 140522                            | Conjugate        | 0.2 ml   | 1000   |
|                                                                       |       | 140525                            | Conjugate        | 0.1 ml   | 500    |
|                                                                       |       | 140529                            | Conjugate        | 0.025 ml | 100    |
|                                                                       |       | 140553                            | Positive control | 2.5 ml   | 12     |
|                                                                       |       | 180043                            | Negative control | 2.5 ml   | 12     |
|                                                                       |       | 140562                            | Reagent set 960  |          | 960    |
|                                                                       |       | 140565                            | Reagent set 480  |          | 480    |
|                                                                       |       | 140572                            | Complete kit 960 |          | 960    |
|                                                                       |       | 140575                            | Complete kit 480 |          | 480    |
|                                                                       |       | 140577                            | Complete kit 96  |          | 96     |
| <b>Andean potato latent virus</b><br>polyclonal - polyclonal          | APLV  | 110912                            | IgG              | 0.2 ml   | 1000   |
|                                                                       |       | 110915                            | IgG              | 0.1 ml   | 500    |
|                                                                       |       | 110919                            | IgG              | 0.025 ml | 100    |
|                                                                       |       | 110922                            | Conjugate        | 0.2 ml   | 1000   |
|                                                                       |       | 110925                            | Conjugate        | 0.1 ml   | 500    |
|                                                                       |       | 110929                            | Conjugate        | 0.025 ml | 100    |
|                                                                       |       | 110953                            | Positive control | 2.5 ml   | 12     |
|                                                                       |       | 180043                            | Negative control | 2.5 ml   | 12     |
|                                                                       |       | 110962                            | Reagent set 960  |          | 960    |
|                                                                       |       | 110965                            | Reagent set 480  |          | 480    |
|                                                                       |       | 110972                            | Complete kit 960 |          | 960    |
|                                                                       |       | 110975                            | Complete kit 480 |          | 480    |
|                                                                       |       | 110977                            | Complete kit 96  |          | 96     |

\*refers to coating IgG and conjugate, respectively.  
Product Information on [www.bioreba.com](http://www.bioreba.com)

| Pathogen                                                          | Abbr. | Art. No. | Reagent form     | Size     | Assays |
|-------------------------------------------------------------------|-------|----------|------------------|----------|--------|
| <b>Andean potato mottle virus</b><br>polyclonal - polyclonal      | APMoV | 111012   | IgG              | 0.2 ml   | 1000   |
|                                                                   |       | 111015   | IgG              | 0.1 ml   | 500    |
|                                                                   |       | 111019   | IgG              | 0.025 ml | 100    |
|                                                                   |       | 111022   | Conjugate        | 0.2 ml   | 1000   |
|                                                                   |       | 111025   | Conjugate        | 0.1 ml   | 500    |
|                                                                   |       | 111029   | Conjugate        | 0.025 ml | 100    |
|                                                                   |       | 111053   | Positive control | 2.5 ml   | 12     |
|                                                                   |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                   |       | 111062   | Reagent set 960  |          | 960    |
|                                                                   |       | 111065   | Reagent set 480  |          | 480    |
|                                                                   |       | 111072   | Complete kit 960 |          | 960    |
|                                                                   |       | 111075   | Complete kit 480 |          | 480    |
|                                                                   |       | 111077   | Complete kit 96  |          | 96     |
| <b>Apple chlorotic leaf spot virus</b><br>polyclonal - polyclonal | ACLSV | 151012   | IgG              | 0.2 ml   | 1000   |
|                                                                   |       | 151015   | IgG              | 0.1 ml   | 500    |
|                                                                   |       | 151019   | IgG              | 0.025 ml | 100    |
|                                                                   |       | 151022   | Conjugate        | 0.2 ml   | 1000   |
|                                                                   |       | 151025   | Conjugate        | 0.1 ml   | 500    |
|                                                                   |       | 151029   | Conjugate        | 0.025 ml | 100    |
|                                                                   |       | 151053   | Positive control | 2.5 ml   | 12     |
|                                                                   |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                   |       | 151062   | Reagent set 960  |          | 960    |
|                                                                   |       | 151065   | Reagent set 480  |          | 480    |
|                                                                   |       | 151072   | Complete kit 960 |          | 960    |
|                                                                   |       | 151075   | Complete kit 480 |          | 480    |
|                                                                   |       | 151077   | Complete kit 96  |          | 96     |
| <b>Apple mosaic virus</b><br>polyclonal - polyclonal              | ApMV  | 150712   | IgG              | 0.2 ml   | 1000   |
|                                                                   |       | 150715   | IgG              | 0.1 ml   | 500    |
|                                                                   |       | 150719   | IgG              | 0.025 ml | 100    |
|                                                                   |       | 150722   | Conjugate        | 0.2 ml   | 1000   |
|                                                                   |       | 150725   | Conjugate        | 0.1 ml   | 500    |
|                                                                   |       | 150729   | Conjugate        | 0.025 ml | 100    |
|                                                                   |       | 150753   | Positive control | 2.5 ml   | 12     |
|                                                                   |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                   |       | 150762   | Reagent set 960  |          | 960    |
|                                                                   |       | 150765   | Reagent set 480  |          | 480    |
|                                                                   |       | 150772   | Complete kit 960 |          | 960    |
|                                                                   |       | 150775   | Complete kit 480 |          | 480    |
|                                                                   |       | 150777   | Complete kit 96  |          | 96     |
| <b>Apple proliferation phytoplasma</b><br>monoclonal - monoclonal | ApP   | 151712   | IgG              | 0.2 ml   | 1000   |
|                                                                   |       | 151715   | IgG              | 0.1 ml   | 500    |
|                                                                   |       | 151719   | IgG              | 0.025 ml | 100    |
|                                                                   |       | 151722   | Conjugate        | 0.2 ml   | 1000   |
|                                                                   |       | 151725   | Conjugate        | 0.1 ml   | 500    |
|                                                                   |       | 151729   | Conjugate        | 0.025 ml | 100    |
|                                                                   |       | 151753   | Positive control | 2.5 ml   | 12     |
|                                                                   |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                   |       | 151762   | Reagent set 960  |          | 960    |
|                                                                   |       | 151765   | Reagent set 480  |          | 480    |
|                                                                   |       | 151772   | Complete kit 960 |          | 960    |
|                                                                   |       | 151775   | Complete kit 480 |          | 480    |
|                                                                   |       | 151777   | Complete kit 96  |          | 96     |



| Pathogen                                                                                              | Abbr.       | Art. No. | Reagent form               | Size     | Assays |
|-------------------------------------------------------------------------------------------------------|-------------|----------|----------------------------|----------|--------|
| <b>Apple stem grooving virus</b><br>polyclonal - polyclonal                                           | ASGV        | 150812   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                       |             | 150815   | IgG                        | 0.1 ml   | 500    |
|                                                                                                       |             | 150819   | IgG                        | 0.025 ml | 100    |
|                                                                                                       |             | 150822   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                       |             | 150825   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                       |             | 150829   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                       |             | 150853   | Positive control           | 2.5 ml   | 12     |
|                                                                                                       |             | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                       |             | 150862   | Reagent set 960            |          | 960    |
|                                                                                                       |             | 150865   | Reagent set 480            |          | 480    |
|                                                                                                       |             | 150872   | Complete kit 960           |          | 960    |
|                                                                                                       |             | 150875   | Complete kit 480           |          | 480    |
|                                                                                                       |             | 150877   | Complete kit 96            |          | 96     |
| <b>Apple stem pitting virus</b><br>monoclonal - monoclonal                                            | ASPV        | 151812   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                       |             | 151815   | IgG                        | 0.1 ml   | 500    |
|                                                                                                       |             | 151819   | IgG                        | 0.025 ml | 100    |
|                                                                                                       |             | 151822   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                       |             | 151825   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                       |             | 151829   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                       |             | 151853   | Positive control           | 2.5 ml   | 12     |
|                                                                                                       |             | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                       |             | 151862   | Reagent set 960            |          | 960    |
|                                                                                                       |             | 151865   | Reagent set 480            |          | 480    |
|                                                                                                       |             | 151872   | Complete kit 960           |          | 960    |
|                                                                                                       |             | 151875   | Complete kit 480           |          | 480    |
|                                                                                                       |             | 151877   | Complete kit 96            |          | 96     |
| <b>Arabidopsis mosaic virus</b><br>polyclonal - polyclonal                                            | ArMV        | 120312   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                       |             | 120315   | IgG                        | 0.1 ml   | 500    |
|                                                                                                       |             | 120319   | IgG                        | 0.025 ml | 100    |
|                                                                                                       |             | 120322   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                       |             | 120325   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                       |             | 120329   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                       |             | 120353   | Positive control           | 2.5 ml   | 12     |
|                                                                                                       |             | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                       |             | 120362   | Reagent set 960            |          | 960    |
|                                                                                                       |             | 120365   | Reagent set 480            |          | 480    |
|                                                                                                       |             | 120372   | Complete kit 960           |          | 960    |
|                                                                                                       |             | 120373   | Grapevine Complete kit 960 |          | 960    |
|                                                                                                       |             | 120375   | Complete kit 480           |          | 480    |
|                                                                                                       |             | 120376   | Grapevine Complete kit 480 |          | 480    |
|                                                                                                       |             | 120377   | Complete kit 96            |          | 96     |
|                                                                                                       |             | 120378   | Grapevine Complete kit 96  |          | 96     |
| <b>Arabidopsis mosaic virus +<br/>Grapevine fanleaf virus</b><br>polyclonal / monoclonal - monoclonal | ArMV + GFLV | 120212   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                       |             | 120215   | IgG                        | 0.1 ml   | 500    |
|                                                                                                       |             | 120219   | IgG                        | 0.025 ml | 100    |
|                                                                                                       |             | 120222   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                       |             | 120225   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                       |             | 120229   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                       |             | 120253   | Positive control           | 2.5 ml   | 12     |
|                                                                                                       |             | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                       |             | 120262   | Reagent set 960            |          | 960    |
|                                                                                                       |             | 120265   | Reagent set 480            |          | 480    |
|                                                                                                       |             | 120273   | Complete kit 960           |          | 960    |
|                                                                                                       |             | 120276   | Complete kit 480           |          | 480    |
|                                                                                                       |             | 120278   | Complete kit 96            |          | 96     |

| Pathogen                                                                                                                       | Abbr.      | Art. No. | Reagent form     | Size     | Assays |
|--------------------------------------------------------------------------------------------------------------------------------|------------|----------|------------------|----------|--------|
| <b>Barley yellow dwarf virus - B (PAV-like)</b><br>polyclonal - polyclonal                                                     | BYDV-B     | 140112   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140115   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                |            | 140119   | IgG              | 0.025 ml | 100    |
|                                                                                                                                |            | 140122   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140125   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                |            | 140129   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                |            | 140153   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                |            | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                |            | 140162   | Reagent set 960  |          | 960    |
|                                                                                                                                |            | 140165   | Reagent set 480  |          | 480    |
|                                                                                                                                |            | 140172   | Complete kit 960 |          | 960    |
|                                                                                                                                |            | 140175   | Complete kit 480 |          | 480    |
|                                                                                                                                |            | 140177   | Complete kit 96  |          | 96     |
| <b>Barley yellow dwarf virus - F (MAV-like)</b><br>polyclonal - polyclonal                                                     | BYDV - F   | 140212   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140215   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                |            | 140219   | IgG              | 0.025 ml | 100    |
|                                                                                                                                |            | 140222   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140225   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                |            | 140229   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                |            | 140253   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                |            | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                |            | 140262   | Reagent set 960  |          | 960    |
|                                                                                                                                |            | 140265   | Reagent set 480  |          | 480    |
|                                                                                                                                |            | 140272   | Complete kit 960 |          | 960    |
|                                                                                                                                |            | 140275   | Complete kit 480 |          | 480    |
|                                                                                                                                |            | 140277   | Complete kit 96  |          | 96     |
| <b>Barley yellow dwarf virus - RPV</b><br>polyclonal - polyclonal<br><br>Synonym: Cereal yellow dwarf virus - RPV (CYDV - RPV) | BYDV - RPV | 140612   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140615   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                |            | 140619   | IgG              | 0.025 ml | 100    |
|                                                                                                                                |            | 140622   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                |            | 140625   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                |            | 140629   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                |            | 140653   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                |            | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                |            | 140662   | Reagent set 960  |          | 960    |
|                                                                                                                                |            | 140665   | Reagent set 480  |          | 480    |
|                                                                                                                                |            | 140672   | Complete kit 960 |          | 960    |
|                                                                                                                                |            | 140675   | Complete kit 480 |          | 480    |
|                                                                                                                                |            | 140677   | Complete kit 96  |          | 96     |
| <b>Bean common mosaic virus</b><br>polyclonal - polyclonal                                                                     | BCMV       | 162012   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                |            | 162015   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                |            | 162019   | IgG              | 0.025 ml | 100    |
|                                                                                                                                |            | 162022   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                |            | 162025   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                |            | 162029   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                |            | 162053   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                |            | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                |            | 162062   | Reagent set 960  |          | 960    |
|                                                                                                                                |            | 162065   | Reagent set 480  |          | 480    |
|                                                                                                                                |            | 162072   | Complete kit 960 |          | 960    |
|                                                                                                                                |            | 162075   | Complete kit 480 |          | 480    |
|                                                                                                                                |            | 162077   | Complete kit 96  |          | 96     |

| Pathogen                                                                                                        | Abbr.      | Art. No.                            | Reagent form     | Size     | Assays |
|-----------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|------------------|----------|--------|
| <b>Bean common mosaic necrosis virus</b><br><br>polyclonal - polyclonal                                         | BCMNV      | 162112                              | IgG              | 0.2 ml   | 1000   |
|                                                                                                                 |            | 162115                              | IgG              | 0.1 ml   | 500    |
|                                                                                                                 |            | 162119                              | IgG              | 0.025 ml | 100    |
|                                                                                                                 |            | 162122                              | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                 |            | 162125                              | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                 |            | 162129                              | Conjugate        | 0.025 ml | 100    |
|                                                                                                                 |            | 162153                              | Positive control | 2.5 ml   | 12     |
|                                                                                                                 |            | 180043                              | Negative control | 2.5 ml   | 12     |
|                                                                                                                 |            | 162162                              | Reagent set 960  |          | 960    |
|                                                                                                                 |            | 162165                              | Reagent set 480  |          | 480    |
|                                                                                                                 |            | 162172                              | Complete kit 960 |          | 960    |
|                                                                                                                 |            | 162175                              | Complete kit 480 |          | 480    |
|                                                                                                                 |            | 162177                              | Complete kit 96  |          | 96     |
| <b>Bean golden mosaic virus</b>                                                                                 | BGMV       | see Tomato yellow leaf curl virus   |                  |          |        |
| <b>Beet necrotic yellow vein virus (Rhizomania)</b><br><br>polyclonal - polyclonal                              | BNYVV      | 160112                              | IgG              | 0.2 ml   | 1000   |
|                                                                                                                 |            | 160115                              | IgG              | 0.1 ml   | 500    |
|                                                                                                                 |            | 160119                              | IgG              | 0.025 ml | 100    |
|                                                                                                                 |            | 160122                              | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                 |            | 160125                              | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                 |            | 160129                              | Conjugate        | 0.025 ml | 100    |
|                                                                                                                 |            | 160153                              | Positive control | 2.5 ml   | 12     |
|                                                                                                                 |            | 180043                              | Negative control | 2.5 ml   | 12     |
|                                                                                                                 |            | 160162                              | Reagent set 960  |          | 960    |
|                                                                                                                 |            | 160165                              | Reagent set 480  |          | 480    |
|                                                                                                                 |            | 160172                              | Complete kit 960 |          | 960    |
|                                                                                                                 |            | 160175                              | Complete kit 480 |          | 480    |
|                                                                                                                 |            | 160177                              | Complete kit 96  |          | 96     |
| <b>Calibrachoa mottle virus</b><br><br>polyclonal - polyclonal                                                  | CbMV       | 170712                              | IgG              | 0.2 ml   | 1000   |
|                                                                                                                 |            | 170715                              | IgG              | 0.1 ml   | 500    |
|                                                                                                                 |            | 170719                              | IgG              | 0.025 ml | 100    |
|                                                                                                                 |            | 170722                              | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                 |            | 170725                              | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                 |            | 170729                              | Conjugate        | 0.025 ml | 100    |
|                                                                                                                 |            | 170753                              | Positive control | 2.5 ml   | 12     |
|                                                                                                                 |            | 180043                              | Negative control | 2.5 ml   | 12     |
|                                                                                                                 |            | 170762                              | Reagent set 960  |          | 960    |
|                                                                                                                 |            | 170765                              | Reagent set 480  |          | 480    |
|                                                                                                                 |            | 170772                              | Complete kit 960 |          | 960    |
|                                                                                                                 |            | 170775                              | Complete kit 480 |          | 480    |
|                                                                                                                 |            | 170777                              | Complete kit 96  |          | 96     |
| <b>Cauliflower mosaic virus</b><br><br>polyclonal - polyclonal<br><br>Needs special extraction buffer «Caulimo» | CaMV       | 162212                              | IgG              | 0.2 ml   | 1000   |
|                                                                                                                 |            | 162215                              | IgG              | 0.1 ml   | 500    |
|                                                                                                                 |            | 162219                              | IgG              | 0.025 ml | 100    |
|                                                                                                                 |            | 162222                              | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                 |            | 162225                              | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                 |            | 162229                              | Conjugate        | 0.025 ml | 100    |
|                                                                                                                 |            | 162253                              | Positive control | 2.5 ml   | 12     |
|                                                                                                                 |            | 180043                              | Negative control | 2.5 ml   | 12     |
|                                                                                                                 |            | 162262                              | Reagent set 960  |          | 960    |
|                                                                                                                 |            | 162265                              | Reagent set 480  |          | 480    |
|                                                                                                                 |            | 162272                              | Complete kit 960 |          | 960    |
|                                                                                                                 |            | 162275                              | Complete kit 480 |          | 480    |
|                                                                                                                 |            | 162277                              | Complete kit 96  |          | 96     |
| <b>Cereal yellow dwarf virus - RPV</b>                                                                          | CYDV - RPV | see Barley yellow dwarf virus - RPV |                  |          |        |

| Pathogen                                                                                                                                                   | Abbr.     | Art. No. | Reagent form     | Size     | Assays |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|------------------|----------|--------|
| <b>Cherry leaf roll virus - ch</b><br><br>polyclonal - polyclonal<br><br>Suitable for cherry, peach, walnut and birch isolates.<br>Complementary to CLRV-e | CLRV - ch | 150912   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 150915   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 150919   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                            |           | 150922   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 150925   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 150929   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                            |           | 150953   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 150962   | Reagent set 960  |          | 960    |
|                                                                                                                                                            |           | 150965   | Reagent set 480  |          | 480    |
|                                                                                                                                                            |           | 150972   | Complete kit 960 |          | 960    |
|                                                                                                                                                            |           | 150975   | Complete kit 480 |          | 480    |
|                                                                                                                                                            |           | 150977   | Complete kit 96  |          | 96     |
| <b>Cherry leaf roll virus - e</b><br><br>polyclonal - polyclonal<br><br>Suitable for elderberry and walnut isolates.<br>Complementary to CLRV-ch.          | CLRV - e  | 151212   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 151215   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 151219   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                            |           | 151222   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 151225   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 151229   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                            |           | 151253   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 151262   | Reagent set 960  |          | 960    |
|                                                                                                                                                            |           | 151265   | Reagent set 480  |          | 480    |
|                                                                                                                                                            |           | 151272   | Complete kit 960 |          | 960    |
|                                                                                                                                                            |           | 151275   | Complete kit 480 |          | 480    |
|                                                                                                                                                            |           | 151277   | Complete kit 96  |          | 96     |
| <b>Citrus tristeza virus</b><br><br>polyclonal / monoclonal - polyclonal / monoclonal                                                                      | CTV       | 151512   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 151515   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 151519   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                            |           | 151522   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 151525   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 151529   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                            |           | 151553   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 151562   | Reagent set 960  |          | 960    |
|                                                                                                                                                            |           | 151565   | Reagent set 480  |          | 480    |
|                                                                                                                                                            |           | 151572   | Complete kit 960 |          | 960    |
|                                                                                                                                                            |           | 151575   | Complete kit 480 |          | 480    |
|                                                                                                                                                            |           | 151577   | Complete kit 96  |          | 96     |
| <b>Cucumber green mottle mosaic virus</b><br><br>polyclonal - polyclonal                                                                                   | CGMMV     | 160712   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 160715   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 160719   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                            |           | 160722   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                            |           | 160725   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                            |           | 160729   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                            |           | 160753   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                            |           | 160762   | Reagent set 960  |          | 960    |
|                                                                                                                                                            |           | 160765   | Reagent set 480  |          | 480    |
|                                                                                                                                                            |           | 160772   | Complete kit 960 |          | 960    |
|                                                                                                                                                            |           | 160775   | Complete kit 480 |          | 480    |
|                                                                                                                                                            |           | 160777   | Complete kit 96  |          | 96     |

| Pathogen                                                                  | Abbr. | Art. No. | Reagent form     | Size     | Assays |
|---------------------------------------------------------------------------|-------|----------|------------------|----------|--------|
| <b>Cucumber mosaic virus</b><br>polyclonal - polyclonal / monoclonal      | CMV   | 160612   | IgG              | 0.2 ml   | 1000   |
|                                                                           |       | 160615   | IgG              | 0.1 ml   | 500    |
|                                                                           |       | 160619   | IgG              | 0.025 ml | 100    |
|                                                                           |       | 160622   | Conjugate        | 0.2 ml   | 1000   |
|                                                                           |       | 160625   | Conjugate        | 0.1 ml   | 500    |
|                                                                           |       | 160629   | Conjugate        | 0.025 ml | 100    |
|                                                                           |       | 160653   | Positive control | 2.5 ml   | 12     |
|                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                           |       | 160662   | Reagent set 960  |          | 960    |
|                                                                           |       | 160665   | Reagent set 480  |          | 480    |
|                                                                           |       | 160672   | Complete kit 960 |          | 960    |
|                                                                           |       | 160675   | Complete kit 480 |          | 480    |
|                                                                           |       | 160677   | Complete kit 96  |          | 96     |
| <b>Cucurbit yellow stunting disorder virus</b><br>polyclonal - polyclonal | CYSDV | 162312   | IgG              | 0.2 ml   | 1000   |
|                                                                           |       | 162315   | IgG              | 0.1 ml   | 500    |
|                                                                           |       | 162319   | IgG              | 0.025 ml | 100    |
|                                                                           |       | 162322   | Conjugate        | 0.2 ml   | 1000   |
|                                                                           |       | 162325   | Conjugate        | 0.1 ml   | 500    |
|                                                                           |       | 162329   | Conjugate        | 0.025 ml | 100    |
|                                                                           |       | 162353   | Positive control | 2.5 ml   | 12     |
|                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                           |       | 162362   | Reagent set 960  |          | 960    |
|                                                                           |       | 162365   | Reagent set 480  |          | 480    |
|                                                                           |       | 162372   | Complete kit 960 |          | 960    |
|                                                                           |       | 162375   | Complete kit 480 |          | 480    |
|                                                                           |       | 162377   | Complete kit 96  |          | 96     |
| <b>Erysimum latent virus</b><br>polyclonal - polyclonal                   | ErLV  | 170912   | IgG              | 0.2 ml   | 1000   |
|                                                                           |       | 170915   | IgG              | 0.1 ml   | 500    |
|                                                                           |       | 170919   | IgG              | 0.025 ml | 100    |
|                                                                           |       | 170922   | Conjugate        | 0.2 ml   | 1000   |
|                                                                           |       | 170925   | Conjugate        | 0.1 ml   | 500    |
|                                                                           |       | 170929   | Conjugate        | 0.025 ml | 100    |
|                                                                           |       | 170953   | Positive control | 2.5 ml   | 12     |
|                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                           |       | 170962   | Reagent set 960  |          | 960    |
|                                                                           |       | 170965   | Reagent set 480  |          | 480    |
|                                                                           |       | 170972   | Complete kit 960 |          | 960    |
|                                                                           |       | 170975   | Complete kit 480 |          | 480    |
|                                                                           |       | 170977   | Complete kit 96  |          | 96     |
| <b>Garlic common latent virus</b><br>polyclonal - polyclonal              | GCLV  | 160412   | IgG              | 0.2 ml   | 1000   |
|                                                                           |       | 160415   | IgG              | 0.1 ml   | 500    |
|                                                                           |       | 160419   | IgG              | 0.025 ml | 100    |
|                                                                           |       | 160422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                           |       | 160425   | Conjugate        | 0.1 ml   | 500    |
|                                                                           |       | 160429   | Conjugate        | 0.025 ml | 100    |
|                                                                           |       | 160453   | Positive control | 2.5 ml   | 12     |
|                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                           |       | 160462   | Reagent set 960  |          | 960    |
|                                                                           |       | 160465   | Reagent set 480  |          | 480    |
|                                                                           |       | 160472   | Complete kit 960 |          | 960    |
|                                                                           |       | 160475   | Complete kit 480 |          | 480    |
|                                                                           |       | 160477   | Complete kit 96  |          | 96     |



| Pathogen                                                                             | Abbr.     | Art. No. | Reagent form     | Size     | Assays |
|--------------------------------------------------------------------------------------|-----------|----------|------------------|----------|--------|
| <b>Grapevine fanleaf virus</b><br>polyclonal - monoclonal                            | GFLV      | 120412   | IgG              | 0.2 ml   | 1000   |
|                                                                                      |           | 120415   | IgG              | 0.1 ml   | 500    |
|                                                                                      |           | 120419   | IgG              | 0.025 ml | 100    |
|                                                                                      |           | 120422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                      |           | 120425   | Conjugate        | 0.1 ml   | 500    |
|                                                                                      |           | 120429   | Conjugate        | 0.025 ml | 100    |
|                                                                                      |           | 120453   | Positive control | 2.5 ml   | 12     |
|                                                                                      |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                      |           | 120462   | Reagent set 960  |          | 960    |
|                                                                                      |           | 120465   | Reagent set 480  |          | 480    |
|                                                                                      |           | 120473   | Complete kit 960 |          | 960    |
|                                                                                      |           | 120476   | Complete kit 480 |          | 480    |
|                                                                                      |           | 120478   | Complete kit 96  |          | 96     |
| <b>Grapevine fleck virus</b><br>polyclonal - monoclonal                              | GFkV      | 120612   | IgG              | 0.2 ml   | 1000   |
|                                                                                      |           | 120615   | IgG              | 0.1 ml   | 500    |
|                                                                                      |           | 120619   | IgG              | 0.025 ml | 100    |
|                                                                                      |           | 120622   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                      |           | 120625   | Conjugate        | 0.1 ml   | 500    |
|                                                                                      |           | 120629   | Conjugate        | 0.025 ml | 100    |
|                                                                                      |           | 120653   | Positive control | 2.5 ml   | 12     |
|                                                                                      |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                      |           | 120662   | Reagent set 960  |          | 960    |
|                                                                                      |           | 120665   | Reagent set 480  |          | 480    |
|                                                                                      |           | 120673   | Complete kit 960 |          | 960    |
|                                                                                      |           | 120676   | Complete kit 480 |          | 480    |
|                                                                                      |           | 120678   | Complete kit 96  |          | 96     |
| <b>Grapevine leafroll - assoc. virus 1</b><br>monoclonal - monoclonal                | GLRaV-1   | 120112   | IgG              | 0.2 ml   | 1000   |
|                                                                                      |           | 120115   | IgG              | 0.1 ml   | 500    |
|                                                                                      |           | 120119   | IgG              | 0.025 ml | 100    |
|                                                                                      |           | 120122   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                      |           | 120125   | Conjugate        | 0.1 ml   | 500    |
|                                                                                      |           | 120129   | Conjugate        | 0.025 ml | 100    |
|                                                                                      |           | 120153   | Positive control | 2.5 ml   | 12     |
|                                                                                      |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                      |           | 120162   | Reagent set 960  |          | 960    |
|                                                                                      |           | 120165   | Reagent set 480  |          | 480    |
|                                                                                      |           | 120173   | Complete kit 960 |          | 960    |
|                                                                                      |           | 120176   | Complete kit 480 |          | 480    |
|                                                                                      |           | 120178   | Complete kit 96  |          | 96     |
| <b>Grapevine leafroll - assoc. virus 1+3</b><br>polyclonal / monoclonal - monoclonal | GLRaV-1+3 | 120912   | IgG              | 0.2 ml   | 1000   |
|                                                                                      |           | 120915   | IgG              | 0.1 ml   | 500    |
|                                                                                      |           | 120919   | IgG              | 0.025 ml | 100    |
|                                                                                      |           | 120922   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                      |           | 120925   | Conjugate        | 0.1 ml   | 500    |
|                                                                                      |           | 120929   | Conjugate        | 0.025 ml | 100    |
|                                                                                      |           | 120953   | Positive control | 2.5 ml   | 12     |
|                                                                                      |           | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                      |           | 120962   | Reagent set 960  |          | 960    |
|                                                                                      |           | 120965   | Reagent set 480  |          | 480    |
|                                                                                      |           | 120973   | Complete kit 960 |          | 960    |
|                                                                                      |           | 120976   | Complete kit 480 |          | 480    |
|                                                                                      |           | 120978   | Complete kit 96  |          | 96     |

| Pathogen                                                                                                                                                                                                           | Abbr.            | Art. No. | Reagent form     | Size     | Assays |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|------------------|----------|--------|
| <b>Grapevine leafroll - assoc. virus 2</b><br><br>monoclonal - polyclonal                                                                                                                                          | GLRaV-2          | 120812   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 120815   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 120819   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 120822   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 120825   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 120829   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 120853   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 120862   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                    |                  | 120865   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                    |                  | 120873   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                    |                  | 120876   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                    |                  | 120878   | Complete kit 96  |          | 96     |
| <b>Grapevine leafroll - assoc. virus 3</b><br><br>polyclonal / monoclonal - monoclonal                                                                                                                             | GLRaV-3          | 122312   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122315   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122319   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122322   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122325   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122329   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122353   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 122362   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                    |                  | 122365   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                    |                  | 122373   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                    |                  | 122376   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                    |                  | 122378   | Complete kit 96  |          | 96     |
| <b>Grapevine leafroll - assoc. virus generic 4 strains (former GLRaV-4-9)</b><br><br>monoclonal - monoclonal<br><br>Recognizes GLRaV-4, GLRaV-4 strain 5, GLRaV-4 strain 6, GLRaV-4 strain 9 and GLRaV-4 strain Ob | GLRaV-4 strains  | 122512   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122515   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122519   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122522   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122525   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122529   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122553   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 122562   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                    |                  | 122565   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                    |                  | 122573   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                    |                  | 122576   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                    |                  | 122578   | Complete kit 96  |          | 96     |
| <b>Grapevine leafroll - assoc. virus 4 strain 6 (former GLRaV-6)</b><br><br>polyclonal - monoclonal                                                                                                                | GLRaV-4 strain 6 | 122412   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122415   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122419   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                    |                  | 122425   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                    |                  | 122429   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                    |                  | 122453   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                    |                  | 122462   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                    |                  | 122465   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                    |                  | 122473   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                    |                  | 122476   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                    |                  | 122478   | Complete kit 96  |          | 96     |

| Pathogen                                                         | Abbr. | Art. No.                      | Reagent form     | Size     | Assays |
|------------------------------------------------------------------|-------|-------------------------------|------------------|----------|--------|
| <b>Grapevine pinot gris virus</b><br>polyclonal - polyclonal     | GPGV  | 120712                        | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 120715                        | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 120719                        | IgG              | 0.025 ml | 100    |
|                                                                  |       | 120722                        | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 120725                        | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 120729                        | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 120753                        | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043                        | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 120762                        | Reagent set 960  |          | 960    |
|                                                                  |       | 120765                        | Reagent set 480  |          | 480    |
|                                                                  |       | 120773                        | Complete kit 960 |          | 960    |
|                                                                  |       | 120776                        | Complete kit 480 |          | 480    |
|                                                                  |       | 120778                        | Complete kit 96  |          | 96     |
| <b>Grapevine virus A</b><br>polyclonal - polyclonal / monoclonal | GVA   | 122212                        | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 122215                        | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 122219                        | IgG              | 0.025 ml | 100    |
|                                                                  |       | 122222                        | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 122225                        | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 122229                        | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 122253                        | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043                        | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 122262                        | Reagent set 960  |          | 960    |
|                                                                  |       | 122265                        | Reagent set 480  |          | 480    |
|                                                                  |       | 122273                        | Complete kit 960 |          | 960    |
|                                                                  |       | 122276                        | Complete kit 480 |          | 480    |
|                                                                  |       | 122278                        | Complete kit 96  |          | 96     |
| <b>Groundnut ringspot virus</b>                                  | GRSV  | see Tomato spotted wilt virus |                  |          |        |
| <b>Impatiens necrotic spot virus</b><br>polyclonal - monoclonal  | INSV  | 190212                        | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 190215                        | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 190219                        | IgG              | 0.025 ml | 100    |
|                                                                  |       | 190222                        | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 190225                        | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 190229                        | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 190253                        | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043                        | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 190262                        | Reagent set 960  |          | 960    |
|                                                                  |       | 190265                        | Reagent set 480  |          | 480    |
|                                                                  |       | 190272                        | Complete kit 960 |          | 960    |
|                                                                  |       | 190275                        | Complete kit 480 |          | 480    |
|                                                                  |       | 190277                        | Complete kit 96  |          | 96     |
| <b>Leek yellow stripe virus</b><br>polyclonal - polyclonal       | LYSV  | 160312                        | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 160315                        | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 160319                        | IgG              | 0.025 ml | 100    |
|                                                                  |       | 160322                        | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 160325                        | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 160329                        | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 160353                        | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043                        | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 160362                        | Reagent set 960  |          | 960    |
|                                                                  |       | 160365                        | Reagent set 480  |          | 480    |
|                                                                  |       | 160372                        | Complete kit 960 |          | 960    |
|                                                                  |       | 160375                        | Complete kit 480 |          | 480    |
|                                                                  |       | 160377                        | Complete kit 96  |          | 96     |

| Pathogen                                                                               | Abbr.  | Art. No. | Reagent form     | Size     | Assays |
|----------------------------------------------------------------------------------------|--------|----------|------------------|----------|--------|
| <b>Lettuce mosaic virus</b><br><br>polyclonal - monoclonal<br><br>For leaves and seeds | LMV    | 160512   | IgG              | 0.2 ml   | 1000   |
|                                                                                        |        | 160515   | IgG              | 0.1 ml   | 500    |
|                                                                                        |        | 160519   | IgG              | 0.025 ml | 100    |
|                                                                                        |        | 160522   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                        |        | 160525   | Conjugate        | 0.1 ml   | 500    |
|                                                                                        |        | 160529   | Conjugate        | 0.025 ml | 100    |
|                                                                                        |        | 160553   | Positive control | 2.5 ml   | 12     |
|                                                                                        |        | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                        |        | 160562   | Reagent set 960  |          | 960    |
|                                                                                        |        | 160565   | Reagent set 480  |          | 480    |
|                                                                                        |        | 160572   | Complete kit 960 |          | 960    |
|                                                                                        |        | 160575   | Complete kit 480 |          | 480    |
|                                                                                        |        | 160577   | Complete kit 96  |          | 96     |
| <b>Maize chlorotic mottle virus</b><br><br>polyclonal - polyclonal                     | MCMV   | 140712   | IgG              | 0.2 ml   | 1000   |
|                                                                                        |        | 140715   | IgG              | 0.1 ml   | 500    |
|                                                                                        |        | 140719   | IgG              | 0.025 ml | 100    |
|                                                                                        |        | 140722   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                        |        | 140725   | Conjugate        | 0.1 ml   | 500    |
|                                                                                        |        | 140729   | Conjugate        | 0.025 ml | 100    |
|                                                                                        |        | 140753   | Positive control | 2.5 ml   | 12     |
|                                                                                        |        | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                        |        | 140762   | Reagent set 960  |          | 960    |
|                                                                                        |        | 140765   | Reagent set 480  |          | 480    |
|                                                                                        |        | 140772   | Complete kit 960 |          | 960    |
|                                                                                        |        | 140775   | Complete kit 480 |          | 480    |
|                                                                                        |        | 140777   | Complete kit 96  |          | 96     |
| <b>Maize dwarf mosaic virus</b><br><br>polyclonal - polyclonal                         | MDMV   | 140312   | IgG              | 0.2 ml   | 1000   |
|                                                                                        |        | 140315   | IgG              | 0.1 ml   | 500    |
|                                                                                        |        | 140319   | IgG              | 0.025 ml | 100    |
|                                                                                        |        | 140322   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                        |        | 140325   | Conjugate        | 0.1 ml   | 500    |
|                                                                                        |        | 140329   | Conjugate        | 0.025 ml | 100    |
|                                                                                        |        | 140353   | Positive control | 2.5 ml   | 12     |
|                                                                                        |        | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                        |        | 140362   | Reagent set 960  |          | 960    |
|                                                                                        |        | 140365   | Reagent set 480  |          | 480    |
|                                                                                        |        | 140372   | Complete kit 960 |          | 960    |
|                                                                                        |        | 140375   | Complete kit 480 |          | 480    |
|                                                                                        |        | 140377   | Complete kit 96  |          | 96     |
| <b>Mirafiori lettuce big-vein virus</b><br><br>polyclonal - polyclonal                 | MiLBVV | 161612   | IgG              | 0.2 ml   | 1000   |
|                                                                                        |        | 161615   | IgG              | 0.1 ml   | 500    |
|                                                                                        |        | 161619   | IgG              | 0.025 ml | 100    |
|                                                                                        |        | 161622   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                        |        | 161625   | Conjugate        | 0.1 ml   | 500    |
|                                                                                        |        | 161629   | Conjugate        | 0.025 ml | 100    |
|                                                                                        |        | 161653   | Positive control | 2.5 ml   | 12     |
|                                                                                        |        | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                        |        | 161662   | Reagent set 960  |          | 960    |
|                                                                                        |        | 161665   | Reagent set 480  |          | 480    |
|                                                                                        |        | 161672   | Complete kit 960 |          | 960    |
|                                                                                        |        | 161675   | Complete kit 480 |          | 480    |
|                                                                                        |        | 161677   | Complete kit 96  |          | 96     |

| Pathogen                                                                                  | Abbr. | Art. No. | Reagent form     | Size     | Assays |
|-------------------------------------------------------------------------------------------|-------|----------|------------------|----------|--------|
| <b>Onion yellow dwarf virus</b><br>polyclonal - polyclonal                                | OYDV  | 160212   | IgG              | 0.2 ml   | 1000   |
|                                                                                           |       | 160215   | IgG              | 0.1 ml   | 500    |
|                                                                                           |       | 160219   | IgG              | 0.025 ml | 100    |
|                                                                                           |       | 160222   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                           |       | 160225   | Conjugate        | 0.1 ml   | 500    |
|                                                                                           |       | 160229   | Conjugate        | 0.025 ml | 100    |
|                                                                                           |       | 160253   | Positive control | 2.5 ml   | 12     |
|                                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                           |       | 160262   | Reagent set 960  |          | 960    |
|                                                                                           |       | 160265   | Reagent set 480  |          | 480    |
|                                                                                           |       | 160272   | Complete kit 960 |          | 960    |
|                                                                                           |       | 160275   | Complete kit 480 |          | 480    |
|                                                                                           |       | 160277   | Complete kit 96  |          | 96     |
| <b>Papaya ringspot virus<br/>(= Watermelon mosaic virus 1)</b><br>polyclonal - polyclonal | PRSV  | 151912   | IgG              | 0.2 ml   | 1000   |
|                                                                                           |       | 151915   | IgG              | 0.1 ml   | 500    |
|                                                                                           |       | 151919   | IgG              | 0.025 ml | 100    |
|                                                                                           |       | 151922   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                           |       | 151925   | Conjugate        | 0.1 ml   | 500    |
|                                                                                           |       | 151929   | Conjugate        | 0.025 ml | 100    |
|                                                                                           |       | 151953   | Positive control | 2.5 ml   | 12     |
|                                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                           |       | 151962   | Reagent set 960  |          | 960    |
|                                                                                           |       | 151965   | Reagent set 480  |          | 480    |
|                                                                                           |       | 151972   | Complete kit 960 |          | 960    |
|                                                                                           |       | 151975   | Complete kit 480 |          | 480    |
|                                                                                           |       | 151977   | Complete kit 96  |          | 96     |
| <b>Pelargonium flower break virus</b><br>polyclonal - polyclonal                          | PFBV  | 170212   | IgG              | 0.2 ml   | 1000   |
|                                                                                           |       | 170215   | IgG              | 0.1 ml   | 500    |
|                                                                                           |       | 170219   | IgG              | 0.025 ml | 100    |
|                                                                                           |       | 170222   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                           |       | 170225   | Conjugate        | 0.1 ml   | 500    |
|                                                                                           |       | 170229   | Conjugate        | 0.025 ml | 100    |
|                                                                                           |       | 170253   | Positive control | 2.5 ml   | 12     |
|                                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                           |       | 170262   | Reagent set 960  |          | 960    |
|                                                                                           |       | 170265   | Reagent set 480  |          | 480    |
|                                                                                           |       | 170272   | Complete kit 960 |          | 960    |
|                                                                                           |       | 170275   | Complete kit 480 |          | 480    |
|                                                                                           |       | 170277   | Complete kit 96  |          | 96     |
| <b>Pelargonium leaf curl virus</b><br>polyclonal - polyclonal                             | PLCV  | 170312   | IgG              | 0.2 ml   | 1000   |
|                                                                                           |       | 170315   | IgG              | 0.1 ml   | 500    |
|                                                                                           |       | 170319   | IgG              | 0.025 ml | 100    |
|                                                                                           |       | 170322   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                           |       | 170325   | Conjugate        | 0.1 ml   | 500    |
|                                                                                           |       | 170329   | Conjugate        | 0.025 ml | 100    |
|                                                                                           |       | 170353   | Positive control | 2.5 ml   | 12     |
|                                                                                           |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                           |       | 170362   | Reagent set 960  |          | 960    |
|                                                                                           |       | 170365   | Reagent set 480  |          | 480    |
|                                                                                           |       | 170372   | Complete kit 960 |          | 960    |
|                                                                                           |       | 170375   | Complete kit 480 |          | 480    |
|                                                                                           |       | 170377   | Complete kit 96  |          | 96     |

| Pathogen                                                         | Abbr. | Art. No. | Reagent form     | Size     | Assays |
|------------------------------------------------------------------|-------|----------|------------------|----------|--------|
| <b>Pelargonium line pattern virus</b><br>polyclonal - polyclonal | PLPV  | 170412   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 170415   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 170419   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 170422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 170425   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 170429   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 170453   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 170462   | Reagent set 960  |          | 960    |
|                                                                  |       | 170465   | Reagent set 480  |          | 480    |
|                                                                  |       | 170472   | Complete kit 960 |          | 960    |
|                                                                  |       | 170475   | Complete kit 480 |          | 480    |
|                                                                  |       | 170477   | Complete kit 96  |          | 96     |
| <b>Pepino mosaic virus</b><br>polyclonal - polyclonal            | PepMV | 161512   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 161515   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 161519   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 161522   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 161525   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 161529   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 161553   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 161562   | Reagent set 960  |          | 960    |
|                                                                  |       | 161565   | Reagent set 480  |          | 480    |
|                                                                  |       | 161572   | Complete kit 960 |          | 960    |
|                                                                  |       | 161575   | Complete kit 480 |          | 480    |
|                                                                  |       | 161577   | Complete kit 96  |          | 96     |
| <b>Pepper mild mottle virus</b><br>polyclonal - polyclonal       | PMMoV | 161712   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 161715   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 161719   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 161722   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 161725   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 161729   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 161753   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 161762   | Reagent set 960  |          | 960    |
|                                                                  |       | 161765   | Reagent set 480  |          | 480    |
|                                                                  |       | 161772   | Complete kit 960 |          | 960    |
|                                                                  |       | 161775   | Complete kit 480 |          | 480    |
|                                                                  |       | 161777   | Complete kit 96  |          | 96     |
| <b>Petunia asteroid mosaic virus</b><br>polyclonal - polyclonal  | PeAMV | 170812   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 170815   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 170819   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 170822   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 170825   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 170829   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 170853   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 170862   | Reagent set 960  |          | 960    |
|                                                                  |       | 170865   | Reagent set 480  |          | 480    |
|                                                                  |       | 170872   | Complete kit 960 |          | 960    |
|                                                                  |       | 170875   | Complete kit 480 |          | 480    |
|                                                                  |       | 170877   | Complete kit 96  |          | 96     |



| Pathogen                                                               | Abbr. | Art. No. | Reagent form      | Size     | Assays |
|------------------------------------------------------------------------|-------|----------|-------------------|----------|--------|
| <b>Plum pox virus (Sharka)</b><br>polyclonal – polyclonal / monoclonal | PPV   | 150512   | IgG               | 0.2 ml   | 1000   |
|                                                                        |       | 150515   | IgG               | 0.1 ml   | 500    |
|                                                                        |       | 150519   | IgG               | 0.025 ml | 100    |
|                                                                        |       | 150522   | Conjugate         | 0.2 ml   | 1000   |
|                                                                        |       | 150525   | Conjugate         | 0.1 ml   | 500    |
|                                                                        |       | 150529   | Conjugate         | 0.025 ml | 100    |
|                                                                        |       | 150553   | Positive control  | 2.5 ml   | 12     |
|                                                                        |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                        |       | 150562   | Reagent set 960   |          | 960    |
|                                                                        |       | 150565   | Reagent set 480   |          | 480    |
|                                                                        |       | 150572   | Complete kit 960  |          | 960    |
|                                                                        |       | 150575   | Complete kit 480  |          | 480    |
|                                                                        |       | 150577   | Complete kit 96   |          | 96     |
| <b>Potato leafroll virus</b><br>polyclonal - monoclonal                | PLRV  | 110611   | IgG               | 1.0 ml   | 5000   |
|                                                                        |       | 110612   | IgG               | 0.2 ml   | 1000   |
|                                                                        |       | 110615   | IgG               | 0.1 ml   | 500    |
|                                                                        |       | 110619   | IgG               | 0.025 ml | 100    |
|                                                                        |       | 110621   | Conjugate         | 1.0 ml   | 5000   |
|                                                                        |       | 110622   | Conjugate         | 0.2 ml   | 1000   |
|                                                                        |       | 110625   | Conjugate         | 0.1 ml   | 500    |
|                                                                        |       | 110629   | Conjugate         | 0.025 ml | 100    |
|                                                                        |       | 110653   | Positive control  | 2.5 ml   | 12     |
|                                                                        |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                        |       | 110670   | Reagent set 5000  |          | 5000   |
|                                                                        |       | 110662   | Reagent set 960   |          | 960    |
|                                                                        |       | 110665   | Reagent set 480   |          | 480    |
|                                                                        |       | 110680   | Complete kit 5000 |          | 5000   |
|                                                                        |       | 110672   | Complete kit 960  |          | 960    |
|                                                                        |       | 110675   | Complete kit 480  |          | 480    |
|                                                                        |       | 110677   | Complete kit 96   |          | 96     |
| <b>Potato mop-top virus</b><br>monoclonal - monoclonal                 | PMTV  | 113012   | IgG               | 0.2 ml   | 1000   |
|                                                                        |       | 113015   | IgG               | 0.1 ml   | 500    |
|                                                                        |       | 113019   | IgG               | 0.025 ml | 100    |
|                                                                        |       | 113022   | Conjugate         | 0.2 ml   | 1000   |
|                                                                        |       | 113025   | Conjugate         | 0.1 ml   | 500    |
|                                                                        |       | 113029   | Conjugate         | 0.025 ml | 100    |
|                                                                        |       | 113053   | Positive control  | 2.5 ml   | 12     |
|                                                                        |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                        |       | 113062   | Reagent set 960   |          | 960    |
|                                                                        |       | 113065   | Reagent set 480   |          | 480    |
|                                                                        |       | 113072   | Complete kit 960  |          | 960    |
|                                                                        |       | 113075   | Complete kit 480  |          | 480    |
|                                                                        |       | 113077   | Complete kit 96   |          | 96     |

| Pathogen                                             | Abbr. | Art. No. | Reagent form      | Size     | Assays |
|------------------------------------------------------|-------|----------|-------------------|----------|--------|
| <b>Potato virus A</b><br><br>monoclonal - monoclonal | PVA   | 112111   | IgG               | 1.0 ml   | 5000   |
|                                                      |       | 112112   | IgG               | 0.2 ml   | 1000   |
|                                                      |       | 112115   | IgG               | 0.1 ml   | 500    |
|                                                      |       | 112119   | IgG               | 0.025 ml | 100    |
|                                                      |       | 112121   | Conjugate         | 1.0 ml   | 5000   |
|                                                      |       | 112122   | Conjugate         | 0.2 ml   | 1000   |
|                                                      |       | 112125   | Conjugate         | 0.1 ml   | 500    |
|                                                      |       | 112129   | Conjugate         | 0.025 ml | 100    |
|                                                      |       | 112153   | Positive control  | 2.5 ml   | 12     |
|                                                      |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                      |       | 112170   | Reagent set 5000  |          | 5000   |
|                                                      |       | 112162   | Reagent set 960   |          | 960    |
|                                                      |       | 112165   | Reagent set 480   |          | 480    |
|                                                      |       | 112180   | Complete kit 5000 |          | 5000   |
|                                                      |       | 112172   | Complete kit 960  |          | 960    |
|                                                      |       | 112175   | Complete kit 480  |          | 480    |
|                                                      |       | 112177   | Complete kit 96   |          | 96     |
| <b>Potato virus M</b><br><br>polyclonal - polyclonal | PVM   | 110211   | IgG               | 1.0 ml   | 5000   |
|                                                      |       | 110212   | IgG               | 0.2 ml   | 1000   |
|                                                      |       | 110215   | IgG               | 0.1 ml   | 500    |
|                                                      |       | 110219   | IgG               | 0.025 ml | 100    |
|                                                      |       | 110221   | Conjugate         | 1.0 ml   | 5000   |
|                                                      |       | 110222   | Conjugate         | 0.2 ml   | 1000   |
|                                                      |       | 110225   | Conjugate         | 0.1 ml   | 500    |
|                                                      |       | 110229   | Conjugate         | 0.025 ml | 100    |
|                                                      |       | 110253   | Positive control  | 2.5 ml   | 12     |
|                                                      |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                      |       | 110270   | Reagent set 5000  |          | 5000   |
|                                                      |       | 110262   | Reagent set 960   |          | 960    |
|                                                      |       | 110265   | Reagent set 480   |          | 480    |
|                                                      |       | 110280   | Complete kit 5000 |          | 5000   |
|                                                      |       | 110272   | Complete kit 960  |          | 960    |
|                                                      |       | 110275   | Complete kit 480  |          | 480    |
|                                                      |       | 110277   | Complete kit 96   |          | 96     |
| <b>Potato virus S</b><br><br>polyclonal - polyclonal | PVS   | 110311   | IgG               | 1.0 ml   | 5000   |
|                                                      |       | 110312   | IgG               | 0.2 ml   | 1000   |
|                                                      |       | 110315   | IgG               | 0.1 ml   | 500    |
|                                                      |       | 110319   | IgG               | 0.025 ml | 100    |
|                                                      |       | 110321   | Conjugate         | 1.0 ml   | 5000   |
|                                                      |       | 110322   | Conjugate         | 0.2 ml   | 1000   |
|                                                      |       | 110325   | Conjugate         | 0.1 ml   | 500    |
|                                                      |       | 110329   | Conjugate         | 0.025 ml | 100    |
|                                                      |       | 110353   | Positive control  | 2.5 ml   | 12     |
|                                                      |       | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                      |       | 110370   | Reagent set 5000  |          | 5000   |
|                                                      |       | 110362   | Reagent set 960   |          | 960    |
|                                                      |       | 110365   | Reagent set 480   |          | 480    |
|                                                      |       | 110380   | Complete kit 5000 |          | 5000   |
|                                                      |       | 110372   | Complete kit 960  |          | 960    |
|                                                      |       | 110375   | Complete kit 480  |          | 480    |
|                                                      |       | 110377   | Complete kit 96   |          | 96     |

| Pathogen                                                                                                                                                                                      | Abbr.    | Art. No. | Reagent form      | Size     | Assays |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------------------|----------|--------|
| <b>Potato virus V (PVY<sup>c</sup> 624)</b><br>polyclonal - polyclonal                                                                                                                        | PVV      | 110812   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 110815   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 110819   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 110822   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 110825   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 110829   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 110853   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 110862   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                               |          | 110865   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                               |          | 110872   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                               |          | 110875   | Complete kit 480  |          | 480    |
|                                                                                                                                                                                               |          | 110877   | Complete kit 96   |          | 96     |
| <b>Potato virus X</b><br>polyclonal - polyclonal                                                                                                                                              | PVX      | 110411   | IgG               | 1.0 ml   | 5000   |
|                                                                                                                                                                                               |          | 110412   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 110415   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 110419   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 110421   | Conjugate         | 1.0 ml   | 5000   |
|                                                                                                                                                                                               |          | 110422   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 110425   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 110429   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 110453   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 110470   | Reagent set 5000  |          | 5000   |
|                                                                                                                                                                                               |          | 110462   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                               |          | 110465   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                               |          | 110480   | Complete kit 5000 |          | 5000   |
|                                                                                                                                                                                               |          | 110472   | Complete kit 960  |          | 960    |
| <b>Potato virus Y - monoclonal</b><br>monoclonal - monoclonal<br><br>Traditional broad-spectrum reagent.<br>Recognizes all isolates except atypical isolates<br>of PVY <sup>tb</sup> subgroup | PVY-mono | 112511   | IgG               | 1.0 ml   | 5000   |
|                                                                                                                                                                                               |          | 112512   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 112515   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 112519   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 112521   | Conjugate         | 1.0 ml   | 5000   |
|                                                                                                                                                                                               |          | 112522   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                               |          | 112525   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                               |          | 112529   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                               |          | 112553   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                               |          | 112570   | Reagent set 5000  |          | 5000   |
|                                                                                                                                                                                               |          | 112562   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                               |          | 112565   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                               |          | 112580   | Complete kit 5000 |          | 5000   |
|                                                                                                                                                                                               |          | 112572   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                               |          | 112575   | Complete kit 480  |          | 480    |
|                                                                                                                                                                                               |          | 112577   | Complete kit 96   |          | 96     |

| Pathogen                                                                                                                                                                                                                                                       | Abbr.            | Art. No. | Reagent form      | Size     | Assays |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-------------------|----------|--------|
| <b>Potato virus Y - monoclonal cocktail</b><br><br>monoclonal - monoclonal<br><br>Full-spectrum reagent. Contains complementary monoclonal antibodies to isolates from different strain groups. Recognizes all known isolates of all groups/subgroups of PVY." | PVY-monocock     | 112911   | IgG               | 1.0 ml   | 5000   |
|                                                                                                                                                                                                                                                                |                  | 112912   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 112915   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 112919   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 112921   | Conjugate         | 1.0 ml   | 5000   |
|                                                                                                                                                                                                                                                                |                  | 112922   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 112925   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 112929   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 112553   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 112970   | Reagent Set 5000  |          | 5000   |
|                                                                                                                                                                                                                                                                |                  | 112962   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 112965   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 112980   | Complete kit 5000 |          | 5000   |
|                                                                                                                                                                                                                                                                |                  | 112972   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 112975   | Complete kit 480  |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 112977   | Complete kit 96   |          | 96     |
| <b>Potato virus Y - necrotic</b><br><br>monoclonal - monoclonal<br><br>Specifically recognizes PVY necrotic strain group, except Wilga type (PVY <sup>N</sup> W). DAS-ELISA format is essential to ensure described N-specificity.                             | PVY <sup>N</sup> | 112712   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 112715   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 112719   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 112722   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 112725   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 112729   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 112553   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 112762   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 112765   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 112772   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 112775   | Complete kit 480  |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 112777   | Complete kit 96   |          | 96     |
| <b>Potato virus Y - polyclonal</b><br><br>polyclonal - polyclonal<br><br>Serological spectrum is similar to PVY monoclonal cocktail.                                                                                                                           | PVY - poly       | 110511   | IgG               | 1.0 ml   | 5000   |
|                                                                                                                                                                                                                                                                |                  | 110512   | IgG               | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 110515   | IgG               | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 110519   | IgG               | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 110521   | Conjugate         | 1.0 ml   | 5000   |
|                                                                                                                                                                                                                                                                |                  | 110522   | Conjugate         | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                |                  | 110525   | Conjugate         | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                |                  | 110529   | Conjugate         | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                |                  | 112553   | Positive control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 180043   | Negative control  | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                |                  | 110570   | Reagent set 5000  |          | 5000   |
|                                                                                                                                                                                                                                                                |                  | 110562   | Reagent set 960   |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 110565   | Reagent set 480   |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 110580   | Complete kit 5000 |          | 5000   |
|                                                                                                                                                                                                                                                                |                  | 110572   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 110575   | Complete kit 480  |          | 480    |
|                                                                                                                                                                                                                                                                |                  | 110577   | Complete kit 96   |          | 96     |
| <b>Poty group test</b><br><br>monoclonal<br><br>Only available as kit in indirect PTA-ELISA format.                                                                                                                                                            | Poty group       | 163072   | Complete kit 960  |          | 960    |
|                                                                                                                                                                                                                                                                |                  | 163075   | Complete kit 480  |          | 480    |

| Pathogen                                                         | Abbr. | Art. No. | Reagent form     | Size     | Assays |
|------------------------------------------------------------------|-------|----------|------------------|----------|--------|
| <b>Prune dwarf virus</b><br>polyclonal - polyclonal              | PDV   | 150612   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 150615   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 150619   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 150622   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 150625   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 150629   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 150653   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 150662   | Reagent set 960  |          | 960    |
|                                                                  |       | 150665   | Reagent set 480  |          | 480    |
|                                                                  |       | 150672   | Complete kit 960 |          | 960    |
|                                                                  |       | 150675   | Complete kit 480 |          | 480    |
|                                                                  |       | 150677   | Complete kit 96  |          | 96     |
| <b>Prunus necrotic ringspot virus</b><br>polyclonal - polyclonal | PNRSV | 151112   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 151115   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 151119   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 151122   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 151125   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 151129   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 151153   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 151162   | Reagent set 960  |          | 960    |
|                                                                  |       | 151165   | Reagent set 480  |          | 480    |
|                                                                  |       | 151172   | Complete kit 960 |          | 960    |
|                                                                  |       | 151175   | Complete kit 480 |          | 480    |
|                                                                  |       | 151177   | Complete kit 96  |          | 96     |
| <b>Radish mosaic virus</b><br>polyclonal - polyclonal            | RaMV  | 162412   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 162415   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 162419   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 162422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 162425   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 162429   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 162453   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 162462   | Reagent set 960  |          | 960    |
|                                                                  |       | 162465   | Reagent set 480  |          | 480    |
|                                                                  |       | 162472   | Complete kit 960 |          | 960    |
|                                                                  |       | 162475   | Complete kit 480 |          | 480    |
|                                                                  |       | 162477   | Complete kit 96  |          | 96     |
| <b>Ralstonia solanacearum</b><br>polyclonal - polyclonal         | Rs    | 170512   | IgG              | 0.2 ml   | 1000   |
|                                                                  |       | 170515   | IgG              | 0.1 ml   | 500    |
|                                                                  |       | 170519   | IgG              | 0.025 ml | 100    |
|                                                                  |       | 170522   | Conjugate        | 0.2 ml   | 1000   |
|                                                                  |       | 170525   | Conjugate        | 0.1 ml   | 500    |
|                                                                  |       | 170529   | Conjugate        | 0.025 ml | 100    |
|                                                                  |       | 170553   | Positive control | 2.5 ml   | 12     |
|                                                                  |       | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                  |       | 170562   | Reagent set 960  |          | 960    |
|                                                                  |       | 170565   | Reagent set 480  |          | 480    |
|                                                                  |       | 170572   | Complete kit 960 |          | 960    |
|                                                                  |       | 170575   | Complete kit 480 |          | 480    |
|                                                                  |       | 170577   | Complete kit 96  |          | 96     |

| Pathogen                                                                                                                                                                                | Abbr.      | Art. No. | Reagent form               | Size     | Assays |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|----------------------------|----------|--------|
| <b>Raspberry bushy dwarf virus</b><br><br>polyclonal - monoclonal                                                                                                                       | RBDV       | 152012   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 152015   | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 152019   | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 152022   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 152025   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 152029   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 152053   | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 152062   | Reagent set 960            |          | 960    |
|                                                                                                                                                                                         |            | 152065   | Reagent set 480            |          | 480    |
|                                                                                                                                                                                         |            | 152072   | Complete kit 960           |          | 960    |
|                                                                                                                                                                                         |            | 152075   | Complete kit 480           |          | 480    |
|                                                                                                                                                                                         |            | 152077   | Complete kit 96            |          | 96     |
| <b>Raspberry ringspot virus - ch</b><br><br>polyclonal - polyclonal<br><br>Broad-spectrum reagent recognizes most common isolates from fruit tree, small fruit and grapevine.           | RpRSV - ch | 150412   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 150415   | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 150419   | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 150422   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 150425   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 150429   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 150453   | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 150462   | Reagent set 960            |          | 960    |
|                                                                                                                                                                                         |            | 150465   | Reagent set 480            |          | 480    |
|                                                                                                                                                                                         |            | 150472   | Complete kit 960           |          | 960    |
|                                                                                                                                                                                         |            | 150473   | Grapevine Complete kit 960 |          | 960    |
|                                                                                                                                                                                         |            | 150475   | Complete kit 480           |          | 480    |
|                                                                                                                                                                                         |            | 150476   | Grapevine Complete kit 480 |          | 480    |
|                                                                                                                                                                                         |            | 150477   | Complete kit 96            |          | 96     |
|                                                                                                                                                                                         |            | 150478   | Grapevine Complete kit 96  |          | 96     |
| <b>Raspberry ringspot virus - g</b><br><br>polyclonal - polyclonal<br><br>Specific reagent for certain grapevine isolates from limited geographic locations. Complementary to RpRSV-ch. | RpRSV - g  | 120512   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 120515   | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 120519   | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 120522   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 120525   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 120529   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 120553   | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 120562   | Reagent set 960            |          | 960    |
|                                                                                                                                                                                         |            | 120565   | Reagent set 480            |          | 480    |
|                                                                                                                                                                                         |            | 120573   | Complete kit 960           |          | 960    |
|                                                                                                                                                                                         |            | 120576   | Complete kit 480           |          | 480    |
|                                                                                                                                                                                         |            | 120578   | Complete kit 96            |          | 96     |
| <b>Soybean mosaic virus</b><br><br>polyclonal - polyclonal                                                                                                                              | SMV        | 162612   | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 162615   | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 162619   | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 162622   | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                         |            | 162625   | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                         |            | 162629   | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                         |            | 162653   | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                         |            | 162662   | Reagent set 960            |          | 960    |
|                                                                                                                                                                                         |            | 162665   | Reagent set 480            |          | 480    |
|                                                                                                                                                                                         |            | 162672   | Complete kit 960           |          | 960    |
|                                                                                                                                                                                         |            | 162675   | Complete kit 480           |          | 480    |
|                                                                                                                                                                                         |            | 162677   | Complete kit 96            |          | 96     |



| Pathogen                                                                                    | Abbr.  | Art. No.                          | Reagent form               | Size     | Assays |
|---------------------------------------------------------------------------------------------|--------|-----------------------------------|----------------------------|----------|--------|
| <b><i>Spongospora subterranea</i> f. sp. <i>subterranea</i></b><br>(Powdery scab of potato) | Sss    | 111112                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                             |        | 111115                            | IgG                        | 0.1 ml   | 500    |
|                                                                                             |        | 111119                            | IgG                        | 0.025 ml | 100    |
|                                                                                             |        | 111122                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                             |        | 111125                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                             |        | 111129                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                             |        | 111153                            | Positive control           | 2.5 ml   | 12     |
|                                                                                             |        | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                             |        | 111162                            | Reagent set 960            |          | 960    |
|                                                                                             |        | 111165                            | Reagent set 480            |          | 480    |
|                                                                                             |        | 111172                            | Complete kit 960           |          | 960    |
|                                                                                             |        | 111175                            | Complete kit 480           |          | 480    |
|                                                                                             |        | 111177                            | Complete kit 96            |          | 96     |
|                                                                                             |        |                                   |                            |          |        |
| <b>Squash leaf curl virus</b>                                                               | SLCV   | see Tomato yellow leaf curl virus |                            |          |        |
| <b>Squash mosaic virus</b>                                                                  | SqMV   | 160912                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                             |        | 160915                            | IgG                        | 0.1 ml   | 500    |
|                                                                                             |        | 160919                            | IgG                        | 0.025 ml | 100    |
|                                                                                             |        | 160922                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                             |        | 160925                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                             |        | 160929                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                             |        | 160953                            | Positive control           | 2.5 ml   | 12     |
|                                                                                             |        | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                             |        | 160962                            | Reagent set 960            |          | 960    |
|                                                                                             |        | 160965                            | Reagent set 480            |          | 480    |
|                                                                                             |        | 160972                            | Complete kit 960           |          | 960    |
|                                                                                             |        | 160975                            | Complete kit 480           |          | 480    |
|                                                                                             |        | 160977                            | Complete kit 96            |          | 96     |
|                                                                                             |        |                                   |                            |          |        |
| <b>Strawberry latent ringspot virus</b>                                                     | SLRSV  | 151612                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                             |        | 151615                            | IgG                        | 0.1 ml   | 500    |
|                                                                                             |        | 151619                            | IgG                        | 0.025 ml | 100    |
|                                                                                             |        | 151622                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                             |        | 151625                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                             |        | 151629                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                             |        | 151653                            | Positive control           | 2.5 ml   | 12     |
|                                                                                             |        | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                             |        | 151662                            | Reagent set 960            |          | 960    |
|                                                                                             |        | 151665                            | Reagent set 480            |          | 480    |
|                                                                                             |        | 151672                            | Complete kit 960           |          | 960    |
|                                                                                             |        | 151673                            | Grapevine Complete kit 960 |          | 960    |
|                                                                                             |        | 151675                            | Complete kit 480           |          | 480    |
|                                                                                             |        | 151676                            | Grapevine Complete kit 480 |          | 480    |
|                                                                                             |        | 151677                            | Complete kit 96            |          | 96     |
|                                                                                             |        | 151678                            | Grapevine Complete kit 96  |          | 96     |
|                                                                                             |        |                                   |                            |          |        |
| <b>Strawberry mild yellow edge potexvirus</b>                                               | SMYEPV | 152112                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                             |        | 152115                            | IgG                        | 0.1 ml   | 500    |
|                                                                                             |        | 152119                            | IgG                        | 0.025 ml | 100    |
|                                                                                             |        | 152122                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                             |        | 152125                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                             |        | 152129                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                             |        | 152153                            | Positive control           | 2.5 ml   | 12     |
|                                                                                             |        | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                             |        | 152162                            | Reagent set 960            |          | 960    |
|                                                                                             |        | 152165                            | Reagent set 480            |          | 480    |
|                                                                                             |        | 152172                            | Complete kit 960           |          | 960    |
|                                                                                             |        | 152175                            | Complete kit 480           |          | 480    |
|                                                                                             |        | 152177                            | Complete kit 96            |          | 96     |

| Pathogen                                                 | Abbr. | Art. No. | Reagent form               | Size     | Assays |
|----------------------------------------------------------|-------|----------|----------------------------|----------|--------|
| <b>Sugarcane mosaic virus</b><br>polyclonal - polyclonal | SCMV  | 140412   | IgG                        | 0.2 ml   | 1000   |
|                                                          |       | 140415   | IgG                        | 0.1 ml   | 500    |
|                                                          |       | 140419   | IgG                        | 0.025 ml | 100    |
|                                                          |       | 140422   | Conjugate                  | 0.2 ml   | 1000   |
|                                                          |       | 140425   | Conjugate                  | 0.1 ml   | 500    |
|                                                          |       | 140429   | Conjugate                  | 0.025 ml | 100    |
|                                                          |       | 140453   | Positive control           | 2.5 ml   | 12     |
|                                                          |       | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                          |       | 140462   | Reagent set 960            |          | 960    |
|                                                          |       | 140465   | Reagent set 480            |          | 480    |
|                                                          |       | 140472   | Complete kit 960           |          | 960    |
|                                                          |       | 140475   | Complete kit 480           |          | 480    |
|                                                          |       | 140477   | Complete kit 96            |          | 96     |
| <b>Tobacco mosaic virus</b><br>polyclonal - polyclonal   | TMV   | 190412   | IgG                        | 0.2 ml   | 1000   |
|                                                          |       | 190415   | IgG                        | 0.1 ml   | 500    |
|                                                          |       | 190419   | IgG                        | 0.025 ml | 100    |
|                                                          |       | 190422   | Conjugate                  | 0.2 ml   | 1000   |
|                                                          |       | 190425   | Conjugate                  | 0.1 ml   | 500    |
|                                                          |       | 190429   | Conjugate                  | 0.025 ml | 100    |
|                                                          |       | 190453   | Positive control           | 2.5 ml   | 12     |
|                                                          |       | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                          |       | 190462   | Reagent set 960            |          | 960    |
|                                                          |       | 190465   | Reagent set 480            |          | 480    |
|                                                          |       | 190472   | Complete kit 960           |          | 960    |
|                                                          |       | 190475   | Complete kit 480           |          | 480    |
|                                                          |       | 190477   | Complete kit 96            |          | 96     |
| <b>Tobacco necrosis virus</b><br>polyclonal - polyclonal | TNV   | 152412   | IgG                        | 0.2 ml   | 1000   |
|                                                          |       | 152415   | IgG                        | 0.1 ml   | 500    |
|                                                          |       | 152419   | IgG                        | 0.025 ml | 100    |
|                                                          |       | 152422   | Conjugate                  | 0.2 ml   | 1000   |
|                                                          |       | 152425   | Conjugate                  | 0.1 ml   | 500    |
|                                                          |       | 152429   | Conjugate                  | 0.025 ml | 100    |
|                                                          |       | 152453   | Positive control           | 2.5 ml   | 12     |
|                                                          |       | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                          |       | 152462   | Reagent set 960            |          | 960    |
|                                                          |       | 152465   | Reagent set 480            |          | 480    |
|                                                          |       | 152472   | Complete kit 960           |          | 960    |
|                                                          |       | 152475   | Complete kit 480           |          | 480    |
|                                                          |       | 152477   | Complete kit 96            |          | 96     |
| <b>Tobacco ringspot virus</b><br>polyclonal - polyclonal | TRSV  | 152212   | IgG                        | 0.2 ml   | 1000   |
|                                                          |       | 152215   | IgG                        | 0.1 ml   | 500    |
|                                                          |       | 152219   | IgG                        | 0.025 ml | 100    |
|                                                          |       | 152222   | Conjugate                  | 0.2 ml   | 1000   |
|                                                          |       | 152225   | Conjugate                  | 0.1 ml   | 500    |
|                                                          |       | 152229   | Conjugate                  | 0.025 ml | 100    |
|                                                          |       | 152253   | Positive control           | 2.5 ml   | 12     |
|                                                          |       | 180043   | Negative control           | 2.5 ml   | 12     |
|                                                          |       | 152262   | Reagent set 960            |          | 960    |
|                                                          |       | 152265   | Reagent set 480            |          | 480    |
|                                                          |       | 152272   | Complete kit 960           |          | 960    |
|                                                          |       | 152273   | Grapevine Complete kit 960 |          | 960    |
|                                                          |       | 152275   | Complete kit 480           |          | 480    |
|                                                          |       | 152276   | Grapevine Complete kit 480 |          | 480    |
|                                                          |       | 152277   | Complete kit 96            |          | 96     |
|                                                          |       | 152278   | Grapevine Complete kit 96  |          | 96     |

| Pathogen                                                                                                          | Abbr. | Art. No.                      | Reagent form               | Size     | Assays |
|-------------------------------------------------------------------------------------------------------------------|-------|-------------------------------|----------------------------|----------|--------|
| <b>Tobacco streak virus</b><br>polyclonal - monoclonal                                                            | TSV   | 152312                        | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                   |       | 152315                        | IgG                        | 0.1 ml   | 500    |
|                                                                                                                   |       | 152319                        | IgG                        | 0.025 ml | 100    |
|                                                                                                                   |       | 152322                        | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                   |       | 152325                        | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                   |       | 152329                        | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                   |       | 152353                        | Positive control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 180043                        | Negative control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 152362                        | Reagent set 960            |          | 960    |
|                                                                                                                   |       | 152365                        | Reagent set 480            |          | 480    |
|                                                                                                                   |       | 152372                        | Complete kit 960           |          | 960    |
|                                                                                                                   |       | 152375                        | Complete kit 480           |          | 480    |
|                                                                                                                   |       | 152377                        | Complete kit 96            |          | 96     |
| <b>Tomato apex necrosis virus</b><br><b>Synonym: Tomato marchitez virus (ToMarV)</b><br>polyclonal - polyclonal   | ToANV | 152712                        | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                   |       | 152715                        | IgG                        | 0.1 ml   | 500    |
|                                                                                                                   |       | 152719                        | IgG                        | 0.025 ml | 100    |
|                                                                                                                   |       | 152722                        | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                   |       | 152725                        | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                   |       | 152729                        | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                   |       | 152753                        | Positive control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 180043                        | Negative control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 152762                        | Reagent set 960            |          | 960    |
|                                                                                                                   |       | 152765                        | Reagent set 480            |          | 480    |
|                                                                                                                   |       | 152772                        | Complete kit 960           |          | 960    |
|                                                                                                                   |       | 152775                        | Complete kit 480           |          | 480    |
|                                                                                                                   |       | 152777                        | Complete kit 96            |          | 96     |
| <b>Tomato black ring virus</b><br>polyclonal / monoclonal - polyclonal / monoclonal<br><br>Broad-spectrum reagent | TBRV  | 113112                        | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                   |       | 113115                        | IgG                        | 0.1 ml   | 500    |
|                                                                                                                   |       | 113119                        | IgG                        | 0.025 ml | 100    |
|                                                                                                                   |       | 113122                        | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                   |       | 113125                        | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                   |       | 113129                        | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                   |       | 113153                        | Positive control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 180043                        | Negative control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 113162                        | Reagent set 960            |          | 960    |
|                                                                                                                   |       | 113165                        | Reagent set 480            |          | 480    |
|                                                                                                                   |       | 113172                        | Complete kit 960           |          | 960    |
|                                                                                                                   |       | 113173                        | Grapevine Complete kit 960 |          | 960    |
|                                                                                                                   |       | 113175                        | Complete kit 480           |          | 480    |
|                                                                                                                   |       | 113176                        | Grapevine Complete kit 480 |          | 480    |
|                                                                                                                   |       | 113177                        | Complete kit 96            |          | 96     |
|                                                                                                                   |       | 113178                        | Grapevine Complete kit 96  |          | 96     |
| <b>Tomato bushy stunt virus</b><br>polyclonal - polyclonal                                                        | TBSV  | 161812                        | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                   |       | 161815                        | IgG                        | 0.1 ml   | 500    |
|                                                                                                                   |       | 161819                        | IgG                        | 0.025 ml | 100    |
|                                                                                                                   |       | 161822                        | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                   |       | 161825                        | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                   |       | 161829                        | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                   |       | 161853                        | Positive control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 180043                        | Negative control           | 2.5 ml   | 12     |
|                                                                                                                   |       | 161862                        | Reagent set 960            |          | 960    |
|                                                                                                                   |       | 161865                        | Reagent set 480            |          | 480    |
|                                                                                                                   |       | 161872                        | Complete kit 960           |          | 960    |
|                                                                                                                   |       | 161875                        | Complete kit 480           |          | 480    |
|                                                                                                                   |       | 161877                        | Complete kit 96            |          | 96     |
| <b>Tomato chlorotic spot virus</b>                                                                                | TCSV  | see Tomato spotted wilt virus |                            |          |        |

| Pathogen                                                                                                                                                                                               | Abbr.    | Art. No.                          | Reagent form               | Size     | Assays |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------|----------------------------|----------|--------|
| <b>Tomato mosaic virus</b><br><br>polyclonal - polyclonal                                                                                                                                              | ToMV     | 152612                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 152615                            | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 152619                            | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 152622                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 152625                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 152629                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 152653                            | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 152662                            | Reagent set 960            |          | 960    |
|                                                                                                                                                                                                        |          | 152665                            | Reagent set 480            |          | 480    |
|                                                                                                                                                                                                        |          | 152672                            | Complete kit 960           |          | 960    |
|                                                                                                                                                                                                        |          | 152675                            | Complete kit 480           |          | 480    |
|                                                                                                                                                                                                        |          | 152677                            | Complete kit 96            |          | 96     |
| <b>Tomato mottle virus</b>                                                                                                                                                                             | ToMoV    | see Tomato yellow leaf curl virus |                            |          |        |
| <b>Tomato ringspot virus</b><br><br>polyclonal - polyclonal<br><br>Broad-spectrum reagent, recognizes most common isolates from many host plants (fruit trees, small fruits, grapevines, ornamentals). | ToRSV    | 151412                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 151415                            | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 151419                            | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 151422                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 151425                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 151429                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 151453                            | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 151462                            | Reagent set 960            |          | 960    |
|                                                                                                                                                                                                        |          | 151465                            | Reagent set 480            |          | 480    |
|                                                                                                                                                                                                        |          | 151472                            | Complete kit 960           |          | 960    |
|                                                                                                                                                                                                        |          | 151473                            | Grapevine Complete kit 960 |          | 960    |
|                                                                                                                                                                                                        |          | 151475                            | Complete kit 480           |          | 480    |
|                                                                                                                                                                                                        |          | 151476                            | Grapevine Complete kit 480 |          | 480    |
|                                                                                                                                                                                                        |          | 151477                            | Complete kit 96            |          | 96     |
|                                                                                                                                                                                                        |          | 151478                            | Grapevine Complete kit 96  |          | 96     |
| <b>Tomato ringspot virus-Ch</b><br><br>polyclonal - polyclonal<br><br>Specific for Chickadee (originally from apple) and grape yellow vein (GYV) strains. Complementary to ToRSV-PYBM.                 | ToRSV-Ch | 151312                            | IgG                        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 151315                            | IgG                        | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 151319                            | IgG                        | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 151322                            | Conjugate                  | 0.2 ml   | 1000   |
|                                                                                                                                                                                                        |          | 151325                            | Conjugate                  | 0.1 ml   | 500    |
|                                                                                                                                                                                                        |          | 151329                            | Conjugate                  | 0.025 ml | 100    |
|                                                                                                                                                                                                        |          | 151353                            | Positive control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 180043                            | Negative control           | 2.5 ml   | 12     |
|                                                                                                                                                                                                        |          | 151362                            | Reagent set 960            |          | 960    |
|                                                                                                                                                                                                        |          | 151365                            | Reagent set 480            |          | 480    |
|                                                                                                                                                                                                        |          | 151372                            | Complete kit 960           |          | 960    |
|                                                                                                                                                                                                        |          | 151373                            | Grapevine Complete kit 960 |          | 960    |
|                                                                                                                                                                                                        |          | 151375                            | Complete kit 480           |          | 480    |
|                                                                                                                                                                                                        |          | 151376                            | Grapevine Complete kit 480 |          | 480    |
|                                                                                                                                                                                                        |          | 151377                            | Complete kit 96            |          | 96     |
|                                                                                                                                                                                                        |          | 151378                            | Grapevine Complete kit 96  |          | 96     |

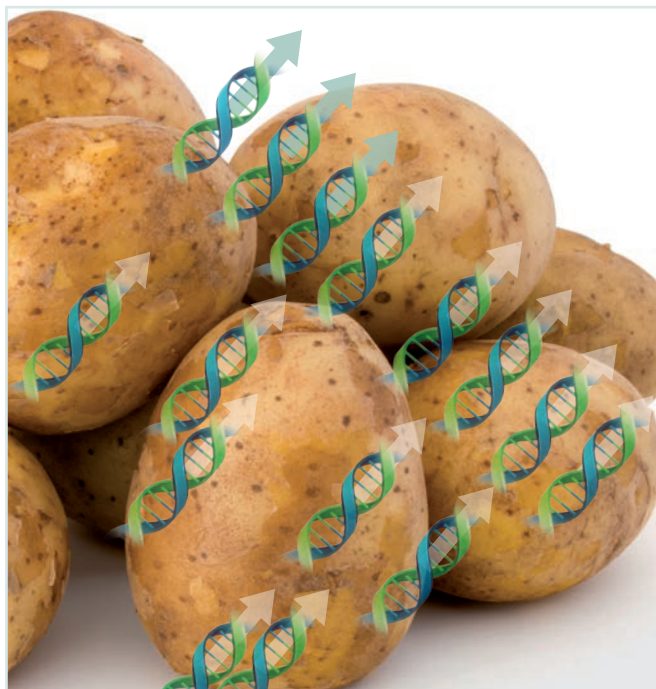
| Pathogen                                                                                                                                                                                                                                                                                                                                             | Abbr.              | Art. No. | Reagent form     | Size     | Assays |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|------------------|----------|--------|
| <b>Tomato spotted wilt virus</b><br><br>polyclonal - monoclonal<br><br>Recognizes serogroups I, II of Tospoviruses (TSWV, TCSV, GRSV).                                                                                                                                                                                                               | TSWV               | 190112   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190115   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190119   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190122   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190125   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190129   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190153   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190162   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190165   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190172   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190175   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190177   | Complete kit 96  |          | 96     |
| <b>Tomato yellow leaf curl virus</b><br><br>polyclonal - monoclonal<br><br>Broad-spectrum, recognizes TYLCV (different isolates), African cassava mosaic virus (ACMV), Bean golden mosaic virus (BGMV), East African cassava mosaic virus EACMV), Indian cassava mosaic virus (ICMV), Squash leaf curl virus (SLCV) and Tomato mottle virus (ToMoV). | TYLCV              | 161412   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161415   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161419   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161422   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161425   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161429   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161453   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161462   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161465   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161472   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161475   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 161477   | Complete kit 96  |          | 96     |
| <b>Tospovirus broad-spectrum (serogroups I,II,III)</b><br><br>polyclonal - monoclonal<br><br>Recognizes serogroups I, II,III of Tospoviruses (TSWV, TCSV, GRSV and INSV).                                                                                                                                                                            | Tospo (I, II, III) | 190312   | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190315   | IgG              | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190319   | IgG              | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190322   | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190325   | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190329   | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190353   | Positive control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 180043   | Negative control | 2.5 ml   | 12     |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190362   | Reagent set 960  |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190365   | Reagent set 480  |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190372   | Complete kit 960 |          | 960    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190375   | Complete kit 480 |          | 480    |
|                                                                                                                                                                                                                                                                                                                                                      |                    | 190377   | Complete kit 96  |          | 96     |

| Pathogen                                                     | Abbr.        | Art. No.                  | Reagent form     | Size     | Assays |
|--------------------------------------------------------------|--------------|---------------------------|------------------|----------|--------|
| <b>Turnip mosaic virus</b><br>polyclonal - monoclonal        | TuMV         | 161012                    | IgG              | 0.2 ml   | 1000   |
|                                                              |              | 161015                    | IgG              | 0.1 ml   | 500    |
|                                                              |              | 161019                    | IgG              | 0.025 ml | 100    |
|                                                              |              | 161022                    | Conjugate        | 0.2 ml   | 1000   |
|                                                              |              | 161025                    | Conjugate        | 0.1 ml   | 500    |
|                                                              |              | 161029                    | Conjugate        | 0.025 ml | 100    |
|                                                              |              | 161053                    | Positive control | 2.5 ml   | 12     |
|                                                              |              | 180043                    | Negative control | 2.5 ml   | 12     |
|                                                              |              | 161062                    | Reagent set 960  |          | 960    |
|                                                              |              | 161065                    | Reagent set 480  |          | 480    |
|                                                              |              | 161072                    | Complete kit 960 |          | 960    |
|                                                              |              | 161075                    | Complete kit 480 |          | 480    |
|                                                              |              | 161077                    | Complete kit 96  |          | 96     |
| <b>Turnip yellow mosaic virus</b><br>polyclonal - polyclonal | TYMV         | 162512                    | IgG              | 0.2 ml   | 1000   |
|                                                              |              | 162515                    | IgG              | 0.1 ml   | 500    |
|                                                              |              | 162519                    | IgG              | 0.025 ml | 100    |
|                                                              |              | 162522                    | Conjugate        | 0.2 ml   | 1000   |
|                                                              |              | 162525                    | Conjugate        | 0.1 ml   | 500    |
|                                                              |              | 162529                    | Conjugate        | 0.025 ml | 100    |
|                                                              |              | 162553                    | Positive control | 2.5 ml   | 12     |
|                                                              |              | 180043                    | Negative control | 2.5 ml   | 12     |
|                                                              |              | 162562                    | Reagent set 960  |          | 960    |
|                                                              |              | 162565                    | Reagent set 480  |          | 480    |
|                                                              |              | 162572                    | Complete kit 960 |          | 960    |
|                                                              |              | 162575                    | Complete kit 480 |          | 480    |
|                                                              |              | 162577                    | Complete kit 96  |          | 96     |
| <b>Verticillium spp.</b><br>monoclonal - monoclonal          | Verticillium | 161312                    | IgG              | 0.2 ml   | 1000   |
|                                                              |              | 161315                    | IgG              | 0.1 ml   | 500    |
|                                                              |              | 161319                    | IgG              | 0.025 ml | 100    |
|                                                              |              | 161322                    | Conjugate        | 0.2 ml   | 1000   |
|                                                              |              | 161325                    | Conjugate        | 0.1 ml   | 500    |
|                                                              |              | 161329                    | Conjugate        | 0.025 ml | 100    |
|                                                              |              | 161353                    | Positive control | 2.5 ml   | 12     |
|                                                              |              | 180043                    | Negative control | 2.5 ml   | 12     |
|                                                              |              | 161362                    | Reagent set 960  |          | 960    |
|                                                              |              | 161365                    | Reagent set 480  |          | 480    |
|                                                              |              | 161372                    | Complete kit 960 |          | 960    |
|                                                              |              | 161375                    | Complete kit 480 |          | 480    |
|                                                              |              | 161377                    | Complete kit 96  |          | 96     |
| <b>Watermelon mosaic virus 1</b>                             | WMV - 1      | see Papaya ringspot virus |                  |          |        |
| <b>Watermelon mosaic virus 2</b><br>polyclonal - polyclonal  | WMV - 2      | 161112                    | IgG              | 0.2 ml   | 1000   |
|                                                              |              | 161115                    | IgG              | 0.1 ml   | 500    |
|                                                              |              | 161119                    | IgG              | 0.025 ml | 100    |
|                                                              |              | 161122                    | Conjugate        | 0.2 ml   | 1000   |
|                                                              |              | 161125                    | Conjugate        | 0.1 ml   | 500    |
|                                                              |              | 161129                    | Conjugate        | 0.025 ml | 100    |
|                                                              |              | 161153                    | Positive control | 2.5 ml   | 12     |
|                                                              |              | 180043                    | Negative control | 2.5 ml   | 12     |
|                                                              |              | 161162                    | Reagent set 960  |          | 960    |
|                                                              |              | 161165                    | Reagent set 480  |          | 480    |
|                                                              |              | 161172                    | Complete kit 960 |          | 960    |
|                                                              |              | 161175                    | Complete kit 480 |          | 480    |
|                                                              |              | 161177                    | Complete kit 96  |          | 96     |



| Pathogen                                                                                                                                     | Abbr. | Art. No.                                                | Reagent form     | Size     | Assays |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------|------------------|----------|--------|
| <b><i>Xanthomonas campestris</i></b><br><b>pv. <i>pelargonii</i></b><br>Synonym: <i>Xanthomonas hortorum</i> (Xh)<br>polyclonal - polyclonal | Xcp   | 170112                                                  | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 170115                                                  | IgG              | 0.1 ml   | 500    |
|                                                                                                                                              |       | 170119                                                  | IgG              | 0.025 ml | 100    |
|                                                                                                                                              |       | 170122                                                  | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 170125                                                  | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                              |       | 170129                                                  | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                              |       | 170153                                                  | Positive control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 180043                                                  | Negative control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 170162                                                  | Reagent set 960  |          | 960    |
|                                                                                                                                              |       | 170165                                                  | Reagent set 480  |          | 480    |
|                                                                                                                                              |       | 170172                                                  | Complete kit 960 |          | 960    |
|                                                                                                                                              |       | 170175                                                  | Complete kit 480 |          | 480    |
|                                                                                                                                              |       | 170177                                                  | Complete kit 96  |          | 96     |
| <b><i>Xanthomonas fragariae</i></b><br>polyclonal - polyclonal                                                                               | Xfr   | 150312                                                  | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 150315                                                  | IgG              | 0.1 ml   | 500    |
|                                                                                                                                              |       | 150319                                                  | IgG              | 0.025 ml | 100    |
|                                                                                                                                              |       | 150322                                                  | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 150325                                                  | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                              |       | 150329                                                  | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                              |       | 150353                                                  | Positive control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 180043                                                  | Negative control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 150362                                                  | Reagent set 960  |          | 960    |
|                                                                                                                                              |       | 150365                                                  | Reagent set 480  |          | 480    |
|                                                                                                                                              |       | 150372                                                  | Complete kit 960 |          | 960    |
|                                                                                                                                              |       | 150375                                                  | Complete kit 480 |          | 480    |
|                                                                                                                                              |       | 150377                                                  | Complete kit 96  |          | 96     |
| <b><i>Xanthomonas hortorum</i></b>                                                                                                           | Xh    | see <i>Xanthomonas campestris</i> pv. <i>pelargonii</i> |                  |          |        |
| <b>Zucchini yellow mosaic virus</b><br>polyclonal - polyclonal                                                                               | ZYMV  | 161212                                                  | IgG              | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 161215                                                  | IgG              | 0.1 ml   | 500    |
|                                                                                                                                              |       | 161219                                                  | IgG              | 0.025 ml | 100    |
|                                                                                                                                              |       | 161222                                                  | Conjugate        | 0.2 ml   | 1000   |
|                                                                                                                                              |       | 161225                                                  | Conjugate        | 0.1 ml   | 500    |
|                                                                                                                                              |       | 161229                                                  | Conjugate        | 0.025 ml | 100    |
|                                                                                                                                              |       | 161253                                                  | Positive control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 180043                                                  | Negative control | 2.5 ml   | 12     |
|                                                                                                                                              |       | 161262                                                  | Reagent set 960  |          | 960    |
|                                                                                                                                              |       | 161265                                                  | Reagent set 480  |          | 480    |
|                                                                                                                                              |       | 161272                                                  | Complete kit 960 |          | 960    |
|                                                                                                                                              |       | 161275                                                  | Complete kit 480 |          | 480    |
|                                                                                                                                              |       | 161277                                                  | Complete kit 96  |          | 96     |

# PCR macroarray



## Diagnostic kit for multiplex detection of eight potato pathogens (7 viruses and 1 viroid in one single reaction)

The PCR macroarray potato virus kit is a diagnostic method for the detection of eight potato viral pathogens: PVA, PVM, PVS, PVX, PVY (O- and N-type), PLRV, PMTV and PSTVd in one single reaction. The complete kit includes macroarray strips, all reagents needed to extract RNA and to perform the test. It is optimized for pools of up to 10 dormant tuber samples. Due to multiplexing, it is cost effective and easy to use. The clearly visible color change of the hybridization positions enables convenient result evaluation by eye. To perform a test, less than 5 hours are required.

The PCR macroarray potato virus kits are validated for potato leaf and tuber samples (peel, stolon and sprouts). Dormant tubers can be pooled for rapid extractions.

There are two kit sizes available for 96 and 192 tests (See next page). Both can be used for single samples and for pooled samples of up to 10 tubers .

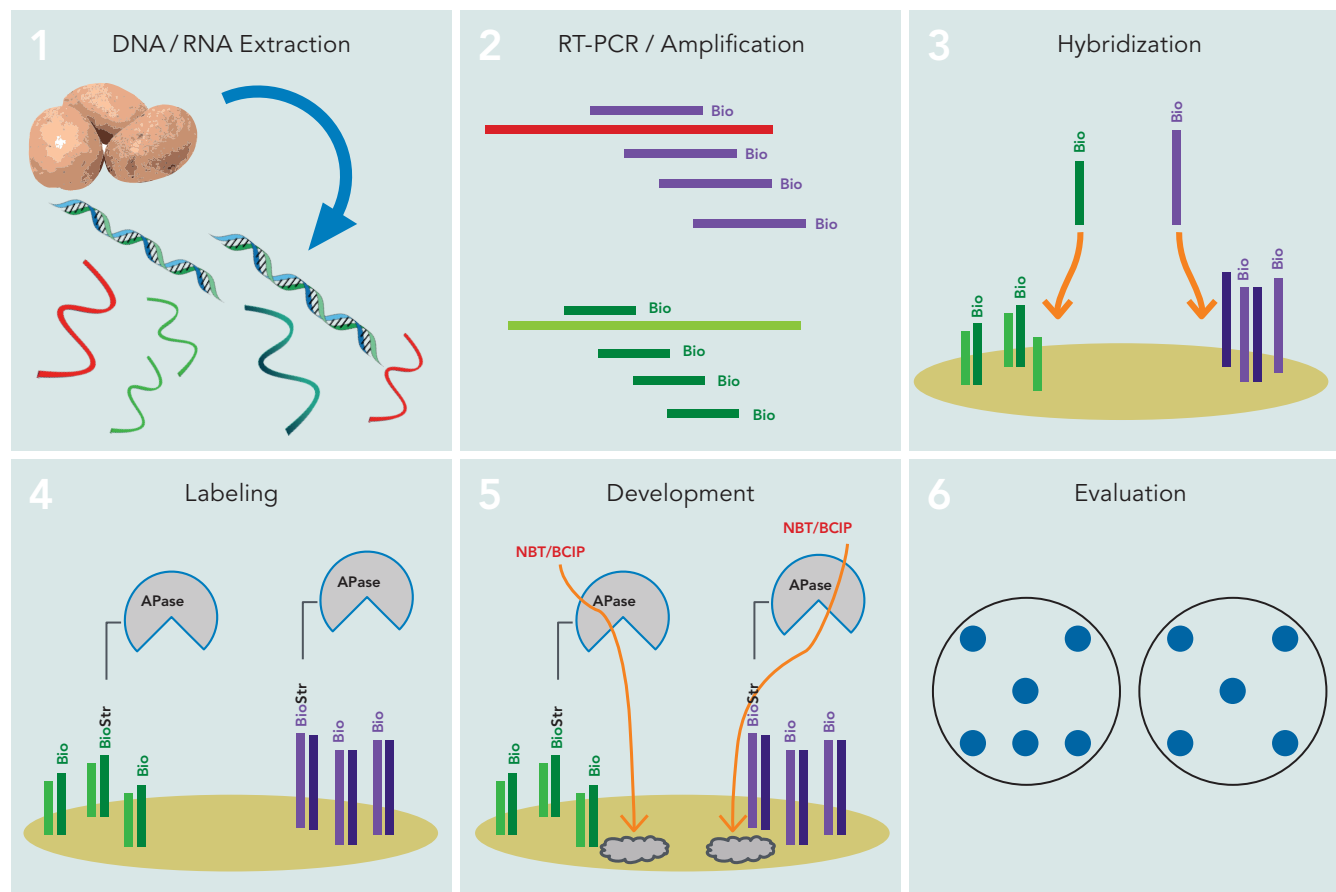
### The characteristics of the PCR macroarray kit are:

- Contains all reagents needed including RNA extraction set
- Optimized for pools of up to 10 potato samples
- Suitable for dormant tubers and leaves
- Validated and accredited method according to ISO/IEC 17025
- Cost effective
- Easy to use
- Convenient evaluation of results



### The six main working steps of the potato PCR macroarray

Nucleic acid extraction (1), amplification of pathogen RNAs with specific primers (labeled with biotin) (2), hybridization of the amplified cDNAs on the macroarray (3), labeling of the positive samples with alkaline phosphatase (conjugated with streptavidin) (4), colorimetric reaction with NBT/BCIP as substrate (5) and evaluation of the results (6).



| Product                                   | Art. No. | No. of reactions |
|-------------------------------------------|----------|------------------|
| PCR macroarray potato virus kit 96 / 10x  | 820032   | 96               |
| PCR macroarray potato virus kit 192 / 10x | 820026   | 192              |
| GT100-2A Thermo Shaker                    | 910030   | 2 x 96           |

# qPCR PLRV/PVY and qPCR PVA/PVM



## qPCR set and kit for the detection of potato viruses

The qPCR sets enable the simultaneous detection (multiplex) of potato virus Y (PVY; all strains) and potato leafroll virus (PLRV) or PVA (potato virus A) and PVM (potato virus M) respectively with real time PCR.

Suitable tissues for the source of viral RNA are potato leaves and tubers (peel, stolon, sprouts). It is highly recommended to use the BIOREBA "Potato DNA/RNA rapid extraction" (included in the qPCR kits) for the extraction of RNA. The qPCR for the detection of PLRV/PVY/IC and PVA/PVM/IC was developed and validated in collaboration with Agroscope, the Swiss centre of excellence for research in the agriculture and food sector.

There are two set sizes available for 96 and for 192 samples and there are four kit sizes available for pools of 10 or up to 25 potato samples and for 96 or 192 extractions respectively.

# qPCR GRBV



## qPCR set for the detection of grapevine red blotch virus (GRBV)

The qPCR set enables the simultaneous detection (multiplex) of Grapevine red blotch virus (GRBV) and a Vitis vinifera host gene control (IC) with real-time PCR.

Suitable tissue sources of viral DNA are grapevine leaves or wood scrapings (phloem). BIOREBA recommends to homogenize samples using the BIOREBA homogenizer system HOMEX and BIOREBA extraction bags Universal, and to follow a CTAB buffer-based method for DNA extraction.

The qPCR for the detection of GRBV was developed in collaboration with Agroscope, the Swiss center of excellence for research in the agriculture and food sectors.

There are two set sizes available for 96 and 192 samples.

| Art. No. | Product                                                                                                                                                                                                    | No. of reactions | Amount of samples (potatoes) |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|
| 839600   | qPCR PLRV/PVY set 96 includes: <ul style="list-style-type: none"> <li>• Taq Master Mix</li> <li>• RT Master Mix</li> <li>• Primers/Probes/IC Mix_PLRV/PVY</li> <li>• Nuclease free water</li> </ul>        | 96               |                              |
| 839200   | qPCR PLRV/PVY set 192 includes: <ul style="list-style-type: none"> <li>• Taq Master Mix</li> <li>• RT Master Mix</li> <li>• Primers/Probes/IC Mix_PLRV/PVY</li> <li>• Nuclease free water</li> </ul>       | 192              |                              |
| 839610   | qPCR PLRV/PVY kit 96/10 includes: <ul style="list-style-type: none"> <li>• qPCR PLRV/PVY set 96</li> <li>• Potato DNA/RNA rapid extraction set 10x for 96 extractions and a pool of 10 potatoes</li> </ul> | 96               | 10                           |
| 839625   | qPCR PLRV/PVY kit 96/25 includes: <ul style="list-style-type: none"> <li>• qPCR PLRV/PVY set 96</li> <li>• Potato DNA/RNA rapid extraction set 25x for 96 extractions and a pool of 25 potatoes</li> </ul> | 96               | 25                           |

| Art. No. | Product                                                                                                                                                                                                       | No. of reactions | Amount of samples (potatoes) |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|
| 839210   | qPCR PLRV/PVY kit 192/10 includes: <ul style="list-style-type: none"> <li>• qPCR PLRV/PVY set 192</li> <li>• Potato DNA/RNA rapid extraction set 10x for 192 extractions and a pool of 10 potatoes</li> </ul> | 192              | 10                           |
| 839225   | qPCR PLRV/PVY kit 192/25 includes: <ul style="list-style-type: none"> <li>• qPCR PLRV/PVY set 192</li> <li>• Potato DNA/RNA rapid extraction set 25x for 192 extractions and a pool of 25 potatoes</li> </ul> | 192              | 25                           |
| 849600   | qPCR PVA/PVM set 96 includes: <ul style="list-style-type: none"> <li>• Taq Master Mix</li> <li>• RT Master Mix</li> <li>• Primers/Probes/IC Mix_PVA/PVM/IC</li> <li>• Nuclease free water</li> </ul>          | 96               |                              |
| 849200   | qPCR PVA/PVM set 192 includes: <ul style="list-style-type: none"> <li>• Taq Master Mix</li> <li>• RT Master Mix</li> <li>• Primers/Probes/IC Mix_PVA/PVM/IC</li> <li>• Nuclease free water</li> </ul>         | 192              |                              |
| 849610   | qPCR PVA/PVM kit 96/10 includes: <ul style="list-style-type: none"> <li>• qPCR PVA/PVM set 96</li> <li>• Potato DNA/RNA rapid extraction set 10x for 96 extractions and a pool of 10 potatoes</li> </ul>      | 96               | 10                           |
| 849625   | qPCR PVA/PVM kit 96/25 includes: <ul style="list-style-type: none"> <li>• qPCR PVA/PVM set 96</li> <li>• Potato DNA/RNA rapid extraction set 25x for 96 extractions and a pool of 25 potatoes</li> </ul>      | 96               | 25                           |
| 849210   | qPCR PVA/PVM kit 192/10 includes: <ul style="list-style-type: none"> <li>• qPCR PVA/PVM set 192</li> <li>• Potato DNA/RNA rapid extraction set 10x for 192 extractions and a pool of 10 potatoes</li> </ul>   | 192              | 10                           |
| 849225   | qPCR PVA/PVM kit 192/25 includes: <ul style="list-style-type: none"> <li>• qPCR PVA/PVM set 192</li> <li>• Potato DNA/RNA rapid extraction set 25x for 192 extractions and a pool of 25 potatoes</li> </ul>   | 192              | 25                           |
| 879600   | qPCR GRBV set 96 includes: <ul style="list-style-type: none"> <li>• Taq Probe Master Mix</li> <li>• Primers/Probes Mix GRBV/IC</li> <li>• Nuclease free water</li> </ul>                                      | 96               |                              |
| 879200   | qPCR GRBV set 192 includes: <ul style="list-style-type: none"> <li>• Taq Probe Master Mix</li> <li>• Primers/Probes Mix GRBV/IC</li> <li>• Nuclease free water</li> </ul>                                     | 192              |                              |



# ELISA Buffers

The ELISA buffers are supplied either in tablets or as concentrated liquids (5x or 10x concentrate). The handling of these formats is easier and more accurate than powder concentrates. No time-consuming dissolving of PVP and other chemicals nor pH adjustment are necessary. Extraction, coating and conjugate buffers are in different colors to help prevent mistakes. ELISA buffers are available either individually or as part of the complete kits (see page 16).

| Product                                | Art. No. | Size       | sufficient for |
|----------------------------------------|----------|------------|----------------|
| Coating buffer                         | 110110   | 50 tablets | 25000 assays   |
| Coating buffer                         | 110111   | 10 tablets | 5000 assays    |
| Coating buffer                         | 110112   | 2 tablets  | 1000 assays    |
| Conjugate buffer (10x)                 | 110140   | 100 ml     | 5000 assays    |
| Conjugate buffer (10x )                | 110142   | 20 ml      | 1000 assays    |
| Substrate buffer* (5x)                 | 110130   | 200 ml     | 5000 assays    |
| Substrate buffer* (5x)                 | 110132   | 40 ml      | 1000 assays    |
| Washing buffer (PBST)                  | 110150   | 10 tablets | 10 x 1 liter   |
| Washing buffer (PBST) powder           | 110152   | 50 g       | 5 liters       |
| Washing buffer (PBST) powder           | 110153   | 250 g      | 25 liters      |
| Washing buffer (PBST) powder           | 110154   | 1250 g     | 125 liters     |
| Extraction buffer «General» (10x)      | 110120   | 500 ml     | 1000 samples** |
| Extraction buffer «Grapevine» (5x)     | 110123   | 2 x 500 ml | 1000 samples** |
| Extraction buffer «Bulbs & Tubers» *** | 110122   | 500 ml     | 1000 samples** |
| Extraction buffer «Caulimo» ****       | 110124   | 500 ml     | 1000 samples   |
| Extraction buffer «Caulimo» ****       | 110224   | 250 ml     | 500 samples    |
| Phosphate-buffered saline (PBS) powder | 110157   | 250 g      | 25 liters      |
| Phosphate-buffered saline (PBS) powder | 110158   | 1250 g     | 125 liters     |

\* For use with pNPP (see below)

\*\* Calculated with 5 ml extraction buffer per sample of 0.25 g

\*\*\* Composed of 500 ml extraction buffer «General» (10x) and 50 g egg albumin

\*\*\*\* Includes extraction buffer «Caulimo» (10x), urea, and egg albumin

## Substrates

| Product                              | Art. No. | Size        | sufficient for |
|--------------------------------------|----------|-------------|----------------|
| pNPP blister-packed tablets (20 mg)* | 110180   | 10 tablets  | 1000 assays    |
| pNPP blister-packed tablets (20 mg)* | 110080   | 50 tablets  | 5000 assays    |
| pNPP blister-packed tablets (5 mg)*  | 110185   | 10 tablets  | 250 assays     |
| pNPP blister-packed tablets (5 mg)*  | 110085   | 50 tablets  | 1250 assays    |
| pNPP bulk tablets (5 mg)**           | 50-80-01 | 100 tablets | 2500 assays    |
| pNPP bulk powder***                  | 4165.8   | 1 x 5 g     | 25000 assays   |
| pNPP bulk powder***                  | 4165.9   | 1 x 25 g    | 125000 assays  |

\* Single packed, providing optimal protection and long-term stability (shelf life: 3 years at -20°C)

\*\* Bulk reagent with limited shelf life (shelf life: 1 year, at 4-6°C)

\*\*\* Excellent quality bulk substrate; needs a balance with 0.1 mg accuracy (shelf life: 2 years at 4-6°C)



# Chemicals

| Product                                  | Art. No. | Size  |
|------------------------------------------|----------|-------|
| BSA standard grade                       | 700110   | 75 g  |
| Polyvinylpyrrolidone PVP K 25 (MW 24000) | 4606.2   | 500 g |
| Egg albumin                              | 5461.1   | 100 g |
| Egg albumin                              | 5461.5   | 500 g |

# Consumables



## ELISA Plates

| Product                                            | Art. No. | Size |
|----------------------------------------------------|----------|------|
| Nunc-Immuno Plates MaxiSorp F96, certified         | 520000   | 10   |
| Standard packaging: 6 x 10 plates                  | 520000   | 60   |
| ELISA plate covers (for multiple use)*             | 520001   | 10   |
| Rubber sheets for ELISA plates (for multiple use)* | 520003   | 10   |

\* ELISA plates are covered during incubations with a sheet of Parafilm which is firmly pressed down by a rubber sheet inside a plate cover. The plate cover is fixed to the plate with rubber bands. This prevents evaporation during incubation.



## Reservoirs

| Product                                  | Art. No. | Size |
|------------------------------------------|----------|------|
| Single reservoir 70 ml (polypropylene)   | 330.01   | 20   |
| 8-channel reservoir 40 ml (polystyrene)  | 330.08.9 | 10   |
| 12-channel reservoir 40 ml (polystyrene) | 330.12.9 | 10   |

# BIOREBA Testing Service Lab for plant pathogen diagnostics



Association of Swiss Laboratories  
Verband Schweizer Laboratorien  
Association des Laboratoires Suisses  
Associazione dei Laboratori Svizzeri

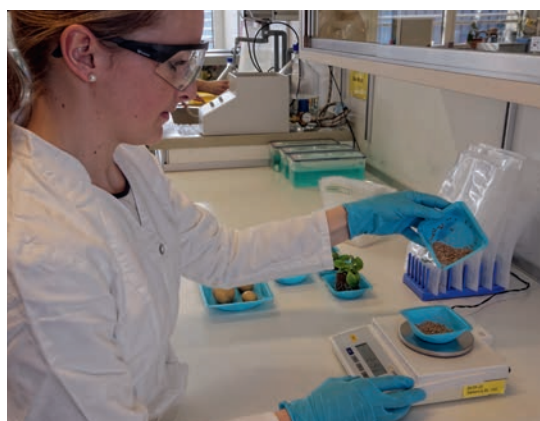
BIOREBA Testing Service provides you its expertise in diagnostic assays for the detection of plant pathogens (viruses, bacteria, fungi and phytoplasma).

More than 30 years of experience with analysis of samples of most agricultural sectors and employment of different state-of-the-art methods and technologies guarantee the highest possible accuracy of test results.

Each case is treated in close communication with the customer to determine the optimal sampling and transport of the samples, as well as the arrangement of the most appropriate testing method and terms. This to make sure each customer gets the right service for its needs in the most cost effective and rapid way.

Our testing service is in accordance to the strict rules and quality standards according to ISO/IEC 17025 and confidentiality is maintained throughout communications and data processing.

For more information visit our website [www.bioreba.com](http://www.bioreba.com) or contact us by phone or email.

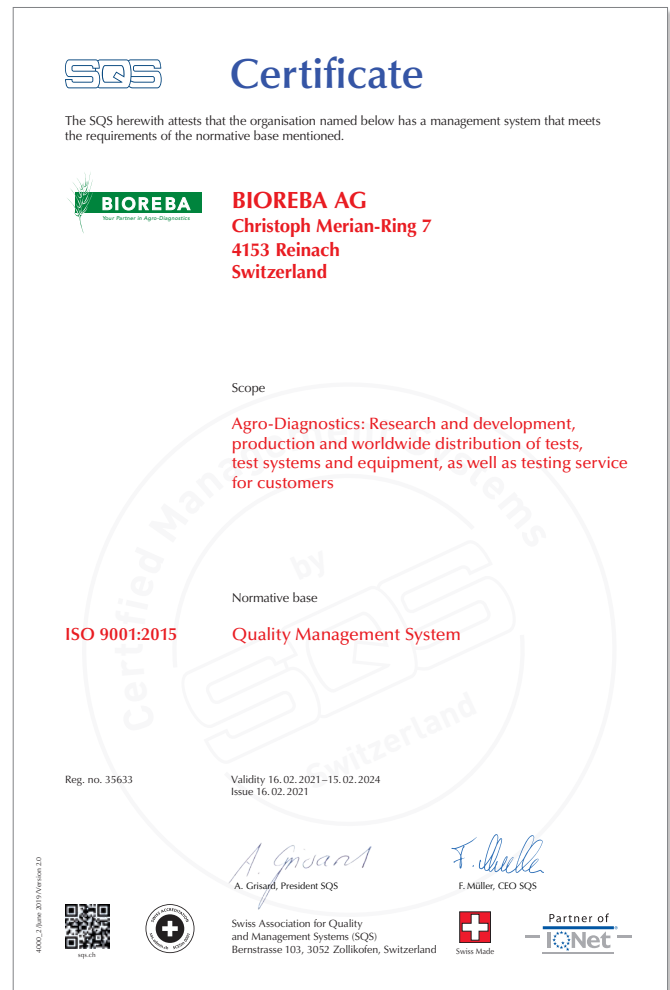


# Quality Management

It is our vision to deliver products and services of outstanding quality to our customers around the world. Our quality management system is a fixed element of all our action-taking processes. Our value-added processes are continuously improved. Within the scope of our quality management system, we constantly seek possibilities to further develop our company.

BIOREBA AG has been ISO certified for many years. Our quality management system, in compliance with ISO 9001:2015, applies not only to production, research and development stages but also to the worldwide distribution of our products as well as testing service for customers.

In addition, we pass on our own experience gained in our ISO/IEC 17025 accredited testing laboratory to our customers and support them in process validation or other quality-related questions. BIOREBA is an official testing laboratory for phyto-diagnostics. As such, we take part in numerous test performance studies (TPS).



# Distribution Worldwide

BIOREBA AG is committed to serving our products for sample preparation, plant pathogen diagnostic tests and additional products on a global scale. We deliver our products worldwide. Besides, in more than 50 countries, we have established long-term strategic relationships with local partners.

You will find a list of our distributing partners on our website [www.bioreba.com](http://www.bioreba.com)

Direct sales support can be provided by contacting our local distributor or BIOREBA AG at our headquarter in Switzerland.





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