

Validation report

DAS-ELISA RpRSV-g

Article No.: 120578 (RpRSV-g Complete kit 96) / 120576 (RpRSV-g Complete kit 480) / 120573 (RpRSV-g Complete kit 960)

General information:

Target Pathogen	RpRSV (Raspberry ringspot virus / Nepovirus rubi)
Genus	<i>Nepovirus</i>
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against a RpRSV isolate in grapevine from Switzerland. This reagent does <u>not react</u> with RpRSV fruit tree isolates, which can be detected with the RpRSV-ch reagents.
Sampling	Leaf samples: 1:10 (w/v) in extraction buffer "Grapevine". Bark scrapings: 1:10 (w/v) in extraction buffer "Grapevine". Detection of leaves in the early growing season or scrapings from mature (also dormant) canes are good sources for testing. For testing grapevine samples, it is recommended to use both RpRSV-ch and RpRSV-g reagents.
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized RpRSV-g infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf, bark (phloem) from canes, vein Transmission by vectors (nematodes). Transmission by seeds is possible.
Tested species infected	<i>Chenopodium quinoa</i> (Quinoa) <i>Vitis vinifera</i> (Grapevine)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	27
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	82
Detected isolates / geographic regions (Inclusivity)	RpRSV-g 5414a (Switzerland, Grapevine) RpRSV-g 5414b (Switzerland, Grapevine) RpRSV-g 815 (Switzerland, Quinoa) RpRSV-g 815 (Switzerland, Grapevine) RpRSV-g 160615 (Switzerland, Grapevine)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	RpRSV-ch (Raspberry ringspot virus, fruit tree isolates) RpRSV-g T82 (France, Grapevine)

	ArMV (Arabidopsis mosaic virus) GFLV (Grapevine fanleaf virus) GLRaV-1 (Grapevine leafroll-associated virus 1) GLRaV-3 (Grapevine leafroll-associated virus 3) GPGV (Grapevine pinot gris virus) GVA (Grapevine virus A) SLRSV (Strawberry latent ringspot virus) TBRV (Tomato black ring virus) WMV-2 (Watermelon mosaic virus-2)
No matrix effect observed with (Selectivity)	<i>Chenopodium quinoa</i> (Quinoa) <i>Prunus avium</i> (Cherry) <i>Vitis vinifera</i> (Grapevine)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10 ⁻³ dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	RpRSV-g on leaves of grapevine: 1:250 dilution RpRSV-g on leaves of quinoa: 1:1'250 dilution Pathogen titer unknown
Other sensitivity characteristics	-

Validation:

Internal validation	1990, 2000
External validation	-
Reproducibility	100%
Repeatability	100%
Validation information	Internally, the reagents have been validated with the BIOREBA isolate collection, composed of various samples with diverse plant host range, collected within the last 40 years.

Validation release Date:
August 19th, 2026

QC manager:



Version: 1 – 19.08.2026.