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Validation report

DAS-ELISA RaMV

Article No.: 162477 (RaMV Complete kit 96) / 162475 (RaMV Complete kit 480) / 162472 (RaMV Complete kit 960)

General information:

Target Pathogen	RaMV (Radish mosaic virus / Radish enation mosaic virus / Comovirus raphani)
Genus	*Comovirus*
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against a RaMV-1 isolate from Czech Republic in winter turnip rape.
Sampling	Leaf samples: 1:20 (w/v) in extraction buffer "General".
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized RaMV infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf Transmission by various beetles.
Tested species infected	*Nicotiana benthamiana* (Tobacco) *Nicotiana occidentalis* (Tobacco) *Nicotiana tabacum "Xanthi"* (Tobacco) *Sinapis alba L.* (White mustard)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	14
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	9
Detected isolates / geographic regions (Inclusivity)	RaMV-1 (Czech Republic, White mustard) RaMV-1 1236 (Switzerland, Tobacco)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	-
No matrix effect observed with (Selectivity)	*Beta vulgaris* (Beetroot) *Brassica oleracea* var. *botrytis* (Cauliflower) *Brassica rapa* subsp. *chinensis* (Chinese cabbage) *Chenopodium quinoa* (Quinoa) *Nicotiana benthamiana* (Tobacco) *Nicotiana clevelandii* (Tobacco) *Nicotiana occidentalis* (Tobacco) *Nicotiana tabacum "Xanthi"* (Tobacco) *Sinapis alba L.* (White mustard)

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Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10^{-3} dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	RaMV on leaves of tobacco: 1:6'250 dilution Pathogen titer unknown
Other sensitivity characteristics	-

Validation:

Internal validation	2003
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:
October 14th, 2026

QC manager:



Version: 1 – 14.10.2026.

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