Validation report

DAS-ELISA ErLV

Article No.: 170977 (ErLV Complete kit 96) / 170975 (ErLV Complete kit 480) / 170972 (ErLV Complete kit 960)

General information:

Target Pathogen	ErLV (Erysimum latent virus / Tymovirus erysimi)
Genus	*Tymovirus*
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against German ErLV isolate HS 24.
Sampling	Leaf samples: 1:20 (w/v) in extraction buffer "General".
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized ErLV infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf Transmission by vectors (flea-beetles).
Tested species infected	*Sinapis alba* (White mustard)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	6
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	14
Detected isolates / geographic regions (Inclusivity)	ErLV 1235 HS 24 (Switzerland, White mustard) ErLV 1235 HS 24 (Czech Rep., White mustard) ErLV HS 24 (Germany, White mustard)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	GLRaV-3 (Grapevine leafroll-associated virus 3) TBRV (Tomato black ring virus)
No matrix effect observed with (Selectivity)	*Brassica oleracea* var. *botrytis* (Cauliflower) *Brassica rapa* subsp. *Pekinensis* (Chinese cabbage) *Sinapis alba* (White mustard)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10^{-5} to 10^{-6} dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	ErLV on leaves of white mustard: 1:781'250 dilution. Pathogen titer unknown

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Other sensitivity characteristics	-

Validation:

Internal validation	2004
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 25 years.

Validation release Date:
August 26th, 2026

QC manager:

Version: 1 – 26.08.2026.

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