

Validation report

DAS-ELISA TYMV

Article No.: 162577 (TYMV Complete kit 96) / 162575 (TYMV Complete kit 480) / 162572 (TYMV Complete kit 960)

General information:

Target Pathogen	TYMV (Turnip yellow mosaic virus / Tymovirus brassicae)
Genus	<i>Tymovirus</i>
Method	DAS-ELISA

Technical information:

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

Host matrix:

Tested plant material	Leaf Transmission by vectors (beetles).
Tested species infected	<i>Brassica rapa</i> subsp. <i>Pekinensis</i> (Chinese cabbage) <i>Sinapis alba</i> (Mustard)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	11
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	10
Detected isolates / geographic regions (Inclusivity)	TYMV 1233 (Switzerland, Mustard) TYMV 1233 (Switzerland, Chinese cabbage) TYMV 130405 (Switzerland, Chinese cabbage)
Cross reaction with (Exclusivity)	None known
No cross reaction tested with (Exclusivity)	BYDV (Barley yellow dwarf virus)
No matrix effect observed with (Selectivity)	<i>Brassica oleracea</i> (Cabbage) <i>Brassica rapa</i> subsp. <i>Pekinensis</i> (Chinese cabbage) <i>Sinapis alba</i> (Mustard)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10 ⁻⁵ dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	TYMV on leaves of mustard: 1:156'250 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:
May 27th, 2026

QC manager:



Version: 1 – 27.05.2026.