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BIOREBA

Validation report

DAS-ELISA CaMV

Article No.: 162265 (CaMV Reagent set 480) / 162262 (CaMV Reagent set 960)

General information:

Target Pathogen	CaMV (Cauliflower mosaic virus / Cabbage virus B / Caulimovirus tessellobrassicae)
Genus	*Caulimovirus*
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against a CaMV isolate from Czech Republic in Chinese cabbage.
Sampling	Leaf samples: 1:100 (w/v) in extraction buffer "Caulimo" (**see specific buffer formulation in Product Information DAS-ELISA CaMV**).
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized CaMV infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf Transmission by aphid species.
Tested species infected	*Brassica rapa* subsp. *chinensis* (Chinese cabbage) *Brassica rapa* subsp. *pekinensis* (Chinese cabbage) *Sinapis alba L.* (White mustard)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	>100
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	55
Detected isolates / geographic regions (Inclusivity)	CaMV 1232 (Czeck Republic, Chinese cabbage) CaMV 1232 (Switzerland, White mustard)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	ACLSV (Apple chlorotic leaf spot virus) ASGV (Apple stem grooving virus) ASPV (Apple stem pitting virus) CLRV (Cherry leaf roll virus) INSV (Impatiens necrotic spot virus) PDV (Prune dwarf virus) PLRV (Potato leafroll virus) PRSV (Prunus necrotic ringspot virus) PVA (Potato virus A) PVX (Potato virus X) SMYEPV (Strawberry mild yellow edge potexvirus) TBSV (Tomato bushy stunt virus)

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No matrix effect observed with (Selectivity)	*Beta vulgaris* (Beetroot) *Brassica oleracea* var. *botrytis* (Cauliflower) *Brassica oleracea* convar. *capitata* var. *alba (White cabbage)* *Brassica rapa* subsp. *chinensis* (Chinese cabbage) *Brassica rapa* subsp. *pekinensis* (Chinese cabbage) *Chenopodium quinoa* (Quinoa) *Nicotiana clevelandii* (Tobacco) *Sinapis alba L.* (White mustard)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10^{-3} to 10^{-4} dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	CaMV on leaves of chinese cabbage: 1:31'250 dilution CaMV on leaves of white mustard: 1:6'250 dilution Pathogen titer unknown
Other sensitivity characteristics	-

Validation:

Internal validation	2004-2005, 2011-2012 (last internal validation)
External validation	2011 (Czech Republic)
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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