

Validation report

DAS-ELISA CbMV

Article No.: 170777 (CbMV Complete kit 96) / 170775 (CbMV Complete kit 480) / 170772 (CbMV Complete kit 960)

General information:

Target Pathogen	CbMV (Calibrachoa mottle virus / Alphacarmovirus calibrachoeae)
Genus	<i>Alphacarmovirus</i>
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against a CbMV isolate from <i>calibrachoa</i> .
Sampling	Leaf samples: 1:20 (w/v) in extraction buffer "general".
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized CbMV infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf, blossom Mechanical transmission and by propagation.
Tested species infected	<i>Calibrachoa</i> (Million bells)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	8
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	17
Detected isolates / geographic regions (Inclusivity)	CbMV 1194 (Switzerland, Calibrachoa) CbMV PV-0611 (Unknown, Calibrachoa)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	Aacat (<i>Acidovorax avenae</i> subsp. <i>cattleyae</i>) CMV (Cucumber mosaic virus) ErLV (Erysimum latent virus) LYSV (Leek yellow stripe virus) PLCV (Pelargonium leaf curl virus) TRSV (Tobacco ringspot virus)
No matrix effect observed with (Selectivity)	<i>Calibrachoa</i> (Million bells) <i>Chenopodium quinoa</i> (Quinoa) <i>Pelargonium</i> (Pelargonium) <i>Petunia</i> × <i>hybrida</i> (Petunia) <i>Phalaenopsis</i> (Orchid)

Sensitivity:

Diagnostic Sensitivity	100%
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Analytical Sensitivity / LoD	10 ⁻⁴ to 10 ⁻⁵ dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	CbMV on leaves of calibrachoa: 1:31'250 dilution CbMV on blossoms of calibrachoa: 1:156'250 dilution Pathogen titer unknown
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 25th, 2026

QC manager:



Version: 1 – 25.08.2026.