

Validation Report: ELISA

SRA 83000 • *Calibrachoa mottle virus* (CbMV)



Test Characteristics

Test Name	Calibrachoa mottle virus	Capture Antibody	Polyclonal (Chicken)
Catalog Number	83000	Detection Antibody	Polyclonal (Chicken)
Acronym	CbMV	Format	DAS-ELISA
Genus	Alphacarmovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Calibrachoa mottle virus (CbMV) in petunia leaves. CbMV is a member of the Alphacarmovirus genus known for their non-enveloped, spherical, icosahedral-shaped virus particles.

Diagnostic Sensitivity

True Positives	27
Correct Diagnoses	27
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:1,620 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of CbMV. Twenty-seven distinct samples of CbMV have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

None known

Does Not Cross-react With:

Carnation mottle virus (CarMV)	Cucumber mosaic virus (CMV)
Hibiscus chlorotic ringspot virus (HCRSV)	Impatiens necrotic spot virus (INSV)
Pelargonium flower break virus (PFBV)	Saguaro cactus virus (SCV)
Squash mosaic virus (SqMV)	Tobacco mosaic virus (TMV)
Tomato spotted wilt virus (TSWV)	



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Diagnostic Specificity

True Negatives 23
Correct Diagnoses 23
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Petunia leaves			



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