

Validation Report: ELISA

PSA/SRA 81001 • *Chrysanthemum virus B* (CVB)



Test Characteristics

Test Name	Chrysanthemum virus B	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	81001	Detection Antibody	Polyclonal (Rabbit)
Acronym	CVB	Format	DAS-ELISA
Genus	Carlavirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Chrysanthemum virus B (CVB) in ornamental leaves and seed. CVB is a member of the Carlavirus genus known for their flexuous rod-shaped virus particles.

Diagnostic Sensitivity

True Positives	15
Correct Diagnoses	15
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:102,400 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of CVB. Fifteen distinct samples of CVB have been experimentally proven to be detected, including PV-1115 (Germany).

Exclusivity:

Cross-reacts With:

None known

Does Not Cross-react With:

Alternanthera mosaic virus & Papaya mosaic virus (AltMV/PapMV)	Cactus virus X (CVX)
Carnation latent virus (CLV)	Cassava common mosaic virus (CCMV)
Chrysanthemum stem necrosis virus (CSNV)	Cucumber green mottle mosaic virus (CGMMV)
Cymbidium mosaic virus (CymMV)	Groundnut bud necrosis virus (GBNV)
Groundnut ringspot virus (GRSV)	Helenium virus S (HVS)
Impatiens necrotic spot virus (INSV)	Iris yellow spot virus (IYSV)
Kyuri green mottle mosaic virus (KGMMV)	Odontoglossum ringspot virus (ORSV)
Papaya mosaic virus (PapMV)	Pepino mosaic virus (PepMV)
Pepper mild mottle virus (PMMoV)	Phlox virus X (PhIVS)
Potato virus M (PVM)	Potato virus S (PVS)
Potato virus X (PVX)	Ribgrass mosaic virus (RMV)



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Does Not Cross-react With:

Sunn-hemp mosaic virus (SHMV)	Tobacco mild green mosaic viurs (TMGMV)
Tobacco mosaic virus (TMV)	Tobacco mosaic virus-c (TMV-c)
Tomato mosaic virus (ToMV)	Tomato spotted wilt virus (TSWV)
Watermelon silver mottle virus (WSMoV)	

Diagnostic Specificity

True Negatives 166
 Correct Diagnoses 161
 Percent 97%

Selectivity:

No Matrix Effect Observed With:			
Abutilon leaves	Achiella plant	Alternanthera seeds	Alstromeria leaves
Angelonia leaves	Anemone seeds	Antirrhinum Snapdragon seeds	Aster leaves
Bacopa seeds	Browallia leaves	Buddleia plant	Calceolaria integrifolia leaves
Calceolaria mexicana leaves	Calibrachoa leaves	Campanula leaves	Chenopodium quinoa plant
Chrysanthemum plant	Cleome leaves	Coleus leaves	Coreopsis plant
Cuphea leaves	Delosperma plant	Diascia leaves	Euphorbia leaves
Fuschsia leaves	Gaillardia seeds	Gaura plant	Helichrysum seeds
Isotoma leaves	Leucanthemum leaves	Limonium Statice seeds	Lisianthus seeds
Lobelia leaves	Lobelia cardinalis plant	Lobelia seeds ¹	Lysimachia leaves
Mimulus Monkey Flower seeds	Nemesia leaves	Osteospermum leaves	Osteospermum seeds
Pachysandra leaves	Penstemon plant	Petunia leaves	Phlox plant
Portulaca leaves	Salvia plant	Scaevola leaves	Sedum leaves
Tetragonia tetragonioides leaves	Torenia catalina leaves	Verbascum seeds	Verbena superbena leaves
Verbena plant	Veronica plant		
¹ One Lobelia seed sample produced elevated background			

Matrix Effect Observed With:			
Argyranthemum leaves	Lavendula		



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