

Validation Report: ELISA

SRA 53400 • *Alternanthera mosaic virus* & *Papaya mosaic virus* (AltMV & PapMV)



Test Characteristics

Test Name	Alternanthera mosaic virus & Papaya mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	53400	Detection Antibody	Polyclonal (Rabbit)
Acronym	AltMV & PapMV	Format	DAS-ELISA
Genus	Potexvirus	Diluents	GEB/RUB6
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Alternanthera mosaic virus & Papaya mosaic virus (AltMV & PapMV) in fruit and ornamental leaves. Agdia's AltMV & PapMV ELISA was developed using PapMV antibodies that demonstrate high immunological affinity for AltMV, a closely related virus to PapMV. Both AltMV & PapMV are members of the Potexvirus genus known for their non-enveloped, flexuous, filamentous-shaped virus particles.

Diagnostic Sensitivity

True Positives	16
Correct Diagnoses	16
Percent	100%

Analytical Sensitivity

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

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

AltMV-GL	AltMV-LR
AltMV-PA (PA, USA)	AltMV-Po (MD, USA)
AltMV-SP (MD, USA)	

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Clover yellow mosaic virus (CIYMV)	Hosta virus X (HVX)
Nandina mosaic virus (NaMV)	Pepino mosaic virus (PepMV)
Potato virus X (PVX)	



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Diagnostic Specificity

True Negatives 181
 Correct Diagnoses 181
 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Ageratum leaves	Alonsoa leaves	Alstroemeria leaves	Alternanthera leaves
Anagallis leaves	Angelonia leaves	Artemisia leaves	Anisodentea leaves
Bacopa leaves	Begonia leaves	Bidens leaves	Brachyscome leaves
Bracteantha leaves	Calibrachoa leaves	Campanula leaves	Chaenorhinum leaves
Chrysocephalum leaves	Cleome leaves	Coleus leaves	Cosmos leaves
Dahlia leaves	Diascia leaves	Evolvulus leaves	Felicia leaves
Fuchsia leaves	Gaura leaves	Geranium leaves	Heliotrope leaves
Heuchera leaves	Hosta leaves	Impatiens leaves	Ipomoea leaves
Kalanchoe leaves	Lamium leaves	Lantana leaves	Leucanthemum leaves
Linaria leaves	Lobelia leaves	Lobularia leaves	Mesembryanthemum leaves
Nemesia leaves	Nierembergia leaves	Osteospermum leaves	Papaya leaves
Peach leaves	Penstemon leaves	Pentas leaves	Petunia leaves
Phlox leaves	Rhododendron leaves	Rose leaves	Scaevola leaves
Salvia leaves	Sanvitalia leaves	Solenostemon leaves	Superbells leaves
Superbena leaves	Superfina leaves	Supertunia leaves	Sutera leaves
Tobacco leaves	Torenia leaves	Verbena leaves	



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