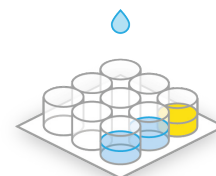


Validation Report: ELISA

PSA/SRA 57601 • *Ribgrass mosaic virus* (RMV)



Test Characteristics

Test Name	Ribgrass mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	57601	Detection Antibody	Polyclonal (Rabbit)
Acronym	RMV	Format	DAS-ELISA
Genus	Tobamovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Ribgrass mosaic virus (RMV) in crops including vegetables and ornamentals. RMV is a member of the Tobamovirus genus known for their rod-shaped virus particles.

Diagnostic Sensitivity

True Positives	31
Correct Diagnoses	31
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:291,600 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of RMV. Thirty-one distinct samples of RMV have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

Piper chlorosis virus (PChV) ^{1,2}	Tobacco mosaic virus (TMV)
Tomato mosaic virus (ToMV)	Turnip vein clearing virus (TVCV)

¹Confirmed experimentally at Agdia, Inc.

²[Reported](#) to detect Piper chlorosis virus (PChV), a possible novel Tobamovirus.

Does Not Cross-react With:

Beet western yellows virus (BWYV)	Cauliflower mosaic virus (CaMV)
Clavibacter michiganensis subsp. michiganensis (Cmm)	Cucumber green mottle mosaic virus (CGMMV)
Cucumber mosaic virus (CMV)	Impatiens necrotic spot virus (INSV)
Kyuri green mottle mosaic virus (KGMMV)	Lettuce mosaic virus (LMV)
Odontoglossum ringspot virus (ORSV)	Pectobacterium atrosepticum (Patro)
Peanut stunt virus (PSV)	Pepino mosaic virus (PepMV)
Pepper mild mottle virus (PMMoV)	Potato virus X (PVX)



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Does Not Cross-react With:

Potato virus Y (PVY)	Tobacco etch virus (TEV)
Tobacco ringspot virus (TRSV)	Tobacco streak virus (TSV)
Tobacco vein mottling virus (TVMV)	Tomato aspermy virus (TAV)
Tomato bushy stunt virus (TBSV)	Tomato ringspot virus (ToRSV)
Tomato spotted wilt virus (TSWV)	Turnip mosaic virus (TuMV)

Diagnostic Specificity

True Negatives 74
 Correct Diagnoses 74
 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Alstroemeria leaves	Bean leaves	Broccoli flower	Cabbage leaves
Collard leaves	Double Impatiens leaves	Hosta leaves	Lettuce leaves
Nemesia leaves	Petunia leaves	Tobacco leaves	Tomato leaves
Verbena leaves			



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