

Validation Report: ELISA

PSA/SRA 13001 • *Pepino mosaic virus* (PepMV)



Test Characteristics

Test Name	Pepino mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	13001	Detection Antibody	Polyclonal (Rabbit)
Acronym	PepMV	Format	DAS-ELISA
Genus	Potexvirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Pepino mosaic virus (PepMV) in ornamentals and vegetables. PepMV is a member of the Potexvirus genus known for their non-enveloped, flexuous, filamentous-shaped virus particles.

Diagnostic Sensitivity

True Positives	64
Correct Diagnoses	64
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:29,160 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

PepMV PV-0577 (Southern Europe)	PepMV PV-0578 (Germany)
PepMV PV-0632	PepMV PV-0674 (United Kingdom)
PepMV PV-0716 (Italy)	PepMV PV-0730 (Netherlands)
PepMV PV-0750 (Spain)	PepMV PV-0751 (Spain)
PepMV PV-0973 (Netherlands)	PepMV PV-0974
PepMV PV-0975 (Spain)	PepMV PV-1022 (Spain)

Exclusivity:

Cross-reacts With:

None known	
------------	--

Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Apple mosaic virus (ApMV)
Arabis mosaic virus (ArMV)	Calibrachoa mosaic virus (CbMV)
Clavibacter michiganensis subsp. michiganensis (Cmm)	Chrysanthemum virus B (CVB)
Cucumber mosaic virus (CMV)	Groundnut ringspot virus (GRSV)
Impatiens necrotic spot virus (INSV)	Prunus necrotic ringspot virus (PNRSV)



Agdia, Inc.
52642 County Road 1
Elkhart, IN 46514
574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com

Does Not Cross-react With:

Potato virus X (PVX)	Potato virus Y (PVY)
Pelargonium zonate spot virus (PZSV)	Tomato aspermy virus (TAV)
Tomato chlorotic spot virus (TCSV)	Tobacco etch virus (TEV)
Tobacco mosaic virus (TMV)	Tomato mosaic virus (ToMV)
Tomato ringspot virus (ToRSV)	Tobacco ringspot virus (TRSV)
Tobacco streak virus (TSV)	Tomato spotted wilt virus (TSWV)

Diagnostic Specificity

True Negatives 39
 Correct Diagnoses 39
 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Petunia leaves	Potato leaves	Tomato leaves	



Agdia, Inc.
 52642 County Road 1
 Elkhart, IN 46514
 574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com