Validation Report: ELISA

SRA 39000 • *Alstroemeria mosaic virus* (AlMV)

Test Characteristics

Test Name	Alstroemeria mosaic virus	**Capture Antibody**	Polyclonal (Rabbit)
Catalog Number	39000	**Detection Antibody**	Polyclonal (Rabbit)
Acronym	AlMV	**Format**	DAS-ELISA
Genus	Potyvirus	**Diluents**	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Alstroemeria mosaic virus (AlMV) in ornamental crops, especially Alstroemeria. AlMV is a member of the Potyvirus genus known for their non-enveloped, flexuous, filamentous virus particles.

Diagnostic Sensitivity

True Positives	5
Correct Diagnoses	5
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:3,240 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of AlMV. Five distinct samples of AlMV have been experimentally proven to be detected including samples of the AlMV Germany isolate, PV-0328.

Exclusivity:

Cross-reacts With:

None known	

Does Not Cross-react With:

Dasheen mosaic virus (DsMV)	Lettuce mosaic virus (LMV)
Leek yellow stripe virus (LYSV)	Maize dwarf mosaic virus (MDMV)
Onion yellow dwarf virus (OYDV)	Pepper mottle virus (PepMoV)
Plum pox virus (PPV)	Papaya ringspot virus (PRSV)
Potato virus A (PVA)	Potato virus V (PVV)
Southern bean mosaic virus (SBMV)	Shallot yellow stripe virus (SYSV)
Sugarcane mosaic virus (SCMV)	Tobacco etch virus (TEV)
Tobacco vein mottling virus (TVMV)	Turnip mosaic virus (TuMV)
Watermelon mosaic virus (WMV)	Zucchini yellow mosaic virus (ZYMV)

Diagnostic Specificity

True Negatives	27
Correct Diagnoses	27
Percent	100%

Selectivity:

No Matrix Effect Observed With:			
Alstroemeria leaves	Bean leaves	Pepper leaves	Petunia leaves
Potato leaves	Tomato leaves		