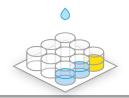
# **Validation Report: ELISA**

SRA 91500 • Plantago asiatica mosasic virus (PIAMV)



#### **Test Characteristics**

Test Name Plantago asiatica mosaic virus Capture Antibody Polyclonal (Rabbit) **Detection Antibody** Polyclonal (Rabbit) Catalog Number 91500

Acronym PIAMV Format DAS-ELISA Diluents GEB/ECI Genus Potexvirus Sample Dilution 1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Plantago asiatica mosaic virus (PIAMV) in ornamental bulb crop leaves. PIAMV is a member of the Potexvirus genus known for their non-enveloped, flexuous, filamentous-shaped virus particles.

### **Diagnostic Sensitivity**

### **Analytical Sensitivity**

True Positives 11 Limit of Detection: 1:405 dilution of infected tissue (pathogen titer unknown)

Correct Diagnoses 11

Percent 100%

### **Analytical Specificity**

## Inclusivity:

#### Isolates and Geographic Regions Detected:

isolates and deagraphic regions beteeted.		
PIAMV Asia isolate	PIAMV Europe isolate	
PIAMV-GSC (South Korea) <sup>1</sup>	PIAMV-Li1 (Japan)	
PIAMV-NJ (Japan)	PIAMV-OL (South Korea)	
PIAMV-PL1 (Japan)	PIAMV USA isolate	
PIAMV-Vi (Japan)		
<sup>1</sup> PIAMV-GSC has been externally reported to be detected.		

#### **Exclusivity:**

#### Cross-reacts With:

None known	
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#### Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Alternanthera mosaic virus & Papaya mosaic virus (AltMV & PapMV)
Bean yellow mosaic virus (BYMV)	Cucumber mosaic virus (CMV)
Hosta virus X (HVX)	Impatiens necrotic spot virus (INSV)
Lily mottle virus (LMoV)	Lily symptomless virus (LSV)



Revised: 10/14/2022

Page 1 of 2

### Does Not Cross-react With:

Groundnut ringspot virus & Tomato chlorotic spot virus (GRSV & TCSV)	Potato virus X (PVX)
Tomato aspermy virus (TAV)	Tulip breaking virus (TBV)
Tobacco mosaic virus (TMV)	Tobacco ringspot virus (TRSV)
Tomato spotted wilt virus (TSWV)	Tobacco streak virus (TSV)
Tobacco rattle virus (TRV)	

# **Diagnostic Specificity**

True Negatives 56 Correct Diagnoses 56 Percent 100%

## Selectivity:

No Matrix Effect Observed With:					
Alternanthera leaves	Angelonia leaves	Antirimum Snapdragon leaves	Asiatic Lily bulbs		
Asiatic Lily leaves	Asiatic Lily roots	Chenopodium ambrosioides leaves	Coleus leaves		
Lilium longiflorum leaves	Mimulus Monkey Flower leaves	Nandina Domestica leaves	Nicotiana leaves		
New Zealand Spinach leaves	Oriental Lily leaves	Oriental Lily roots	Penstemon leaves		
Pepper leaves	Plantago Asiatica leaves	Primrose leaves	Primula leaves		
Tobacco leaves	Verbena leaves				

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