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#### **Test Characteristics**

Test Name Potato virus S Capture Antibody Polyclonal (Sheep)

Catalog Number 40000 Detection Antibody Polyclonal (Rabbit)

Acronym PVS Format Lateral Flow Device

GenusCarlavirusDiluentsSEB4Sample Dilution1:20

### **Summary**

The Potato virus S (PVS) ImmunoStrip is used to detect the presence of PVS in potato leaves. PVS is a member of the Carlavirus genus known for their flexuous rod-shaped virus particles. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

### **Diagnostic Sensitivity**

### **Analytical Sensitivity**

True Positives 34 Limit of Detection: 1:243 dilution of infected tissue (pathogen titer unknown)

Correct Diagnoses 34

Percent 100%

### **Analytical Specificity**

## Inclusivity:

## Isolates and Geographic Regions Detected:

PVS PV-0739 (Ecuador)	PVS PV-0740 (Netherlands)
PVS PV-0789 (Germany)	PVS PV-0838 (Chili)

#### **Exclusivity:**

#### Cross-reacts With:

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#### Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Andean potato latent virus (APLV)	
Andean potato mottle virus (ApMoV)	Cucumber mosaic virus (CMV)	
Impatiens necrotic spot virus (INSV)	Pectobacterium atrosepticum (Patro)	
Pectobacterium carotovorum (Pc)	Pepino mosaic virus (PepMV)	
Pepper mild mottle virus (PMMoV)	Potato aucuba mosaic virus (PAMV)	
Potato latent virus (PotLV)	Potato leafroll virus (PLRV)	
Potato mop-top virus (PMTV)	Potato virus A (PVA)	
Potato virus M (PVM)	Potato virus T (PVT)	
Potato virus V (PVV)	Potato virus X (PVX)	
Potato virus Y (PVY)	Ralstonia solanacearum (Rs)	
Tobacco rattle virus (TRV)	Tobacco streak virus (TSV)	
Tomato spotted wilt virus (TSWV)		

p198.1 Revised:10/28/2022 Page 1 of 2

# **Diagnostic Specificity**

True Negatives 29
Correct Diagnoses 29
Percent 100%

#### Selectivity:

No Matrix Effect Observed With:					
Potato leaves					

## Repeatability

## Reproducibility

Number of Samples22Number of Samples10Replicates per Sample2 - 3Replicates per Sample3Average Percent Agreement<br/>Between Replicates100%Number of Operators5Average Percent Agreement Between<br/>Replicates Between Operators100%

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p198.1 Revised:10/28/2022 Page 2 of 2