

# Validation Report: ELISA

PSA/SRA 40000 • *Potato virus S (PVS)*



## Test Characteristics

Test Name	Potato virus S	Capture Antibody	Polyclonal (Sheep)
Catalog Number	40000	Detection Antibody	Polyclonal (Sheep)
Acronym	PVS	Format	DAS-ELISA
Genus	Carlavirus	Diluents	GEB/ECI
		Sample Dilution	1:10

## Summary

This ELISA test is a qualitative serological assay for the detection of Potato virus S (PVS) in potato leaves and sprouts. PVS is a member of the Carlavirus genus known for their non-enveloped, flexuous, filamentous-shaped virus particles.

## Diagnostic Sensitivity

True Positives	45
Correct Diagnoses	45
Percent	100%

## Analytical Sensitivity

Limit of Detection: 1:21,600 dilution of infected tissue (pathogen titer unknown)

## Analytical Specificity

### Inclusivity:

This assay was designed to detect all strains and isolates of PVS. Forty-five distinct samples of PVS have been experimentally proven to be detected.

### Exclusivity:

#### Cross-reacts With:

Potato Virus M	
----------------	--

#### Does Not Cross-react With:

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

## Diagnostic Specificity

True Negatives	41
Correct Diagnoses	41
Percent	100%

### Selectivity:

#### No Matrix Effect Observed With:

Potato leaves	Potato sprouts		
---------------	----------------	--	--



Agdia, Inc.  
52642 County Road 1  
Elkhart, IN 46514  
574-264-2014 / 800-622-4342  
[www.agdia.com](http://www.agdia.com) / [info@agdia.com](mailto:info@agdia.com)

p120.1  
Revised: 02/02/2021  
Page 1 of 1