Validation Report: ELISA

PSA/SRA 30500 • *Prunus necrotic ringspot virus* (PNRSV)

Test Characteristics

Test Name	Prunus necrotic ringspot virus
Catalog Number	30500
Acronym	PNRSV
Genus	Ilarvirus
Capture Antibody	Polyclonal (Rabbit)
Detection Antibody	Monoclonal (Mouse)
Format	Compound ELISA
Diluents	GEB/ECI
Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Prunus necrotic ringspot virus (PNRSV), one of the causal agents of Rose Mosaic Disease, in prunus and rose leaves. PNRSV is a member of the Ilarvirus genus known for their non-enveloped, quasi-spherical-shaped virus particles.

Diagnostic Sensitivity

True Positives	55
Correct Diagnoses	55
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:1,350 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

PNRSV-A (ATCC® PV-295™) (MI, USA)	PNRSV-CH3 (USA)
PNRSV-CH9	PNRSV-CH30
PNRSV-CH57	PNRSV-CH61
PNRSV-DPLP (ATCC® PV-34™)	PNRSV-G (ATCC® PV-22™) (WI, USA)

Exclusivity:

Cross-reacts With:

None known	

Does Not Cross-react With:

None known	

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Diagnostic Specificity

True Negatives	41
Correct Diagnoses	41
Percent	100%

Selectivity:

No Matrix Effect Observed With:			
Hosta leaves	Peach leaves	Petunia leaves	Rose leaves
Rose shoot tips			

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