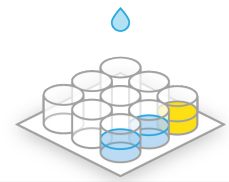


Validation Report: ELISA

SRA 20700 • *Potato virus Y* - common strain (PVY-c)



Test Characteristics

Test Name	Potato virus Y - common strain	Capture Antibody	Polyclonal (Goat)
Catalog Number	20700	Detection Antibody	Monoclonal (Mouse)
Acronym	PVY-c	Format	Compound-ELISA
Genus	Potyvirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Potato virus Y - common strain (PVY-c) in potato leaves and tubers. PVY-c is a member of the Potyvirus genus known for their non-enveloped, flexuous, filamentous virus particles.

Diagnostic Sensitivity

True Positives	14
Correct Diagnoses	14
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:16,200 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of PVY-c. Fourteen distinct samples of PVY-c have been experimentally proven to be detected including samples of PVY^c-28 and PVY^c-31.

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Pepper mottle virus (PepMoV)	Potato virus A (PVA)
Potato virus Y-MM (PVY-MM)	Potato virus Y-MN (PVY-MN)
Potato virus Y-NN (PVY-NN)	Potato virus Y-necrotic strain (PVY-n)
Potato virus Y-o (PVY-o)	Tobacco etch virus (TEV)



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Diagnostic Specificity

True Negatives 64
Correct Diagnoses 64
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Cucumber leaves	Petunia leaves	Potato leaves	Potato tubers
Tobacco leaves			



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