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Test Characteristics

Test Name Potato virus X and Potato virus Y Capture Antibody PVX, PVY: Polyclonal (Rabbit) Catalog Number 41300 Detection Antibody PVX, PVY: Polyclonal (Rabbit)

Acronym PVX & PVY Format Lateral Flow Device

Genus Potexvirus (PVX) and Potyvirus (PVY) Diluents SEB1 Sample Dilution 1:20

Summary

The Potato virus X and Potato virus Y (PVX & PVY) dual pathogen ImmunoStrip® is used to detect the presence of PVX and PVY in potato leaves. ImmunoStrips® are the perfect screening tool for use in the field, greenhouse, and the lab.

Diagnostic Sensitivity

Analytical Sensitivity

True Positives 23 Limit of Detection (PVX): 1:48,600 dilution of infected tissue (pathogen titer unknown) Correct Diagnoses 23 Limit of Detection (PVY): 1:2,160 dilution of infected tissue (pathogen titer unknown)

Percent 100%

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

PVX-GUA II	PVX-HB (Bolivia)
PVY-c	PVY-n
PVY-ntn	PVY-o
PVY-o+c	

Exclusivity:

Cross-reacts With:

None known

Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Andean potato latent virus (APLV)
Andean potato mottle virus (APMoV)	Clavibacter michiganensis subsp. sepedonicus (Cms)
Cucumber mosaic virus (CMV)	Impatiens necrotic spot virus (INSV)
Pectobacterium atrosepticum (Patro)	Pectobacterium carotovorum (Pc)
Pepino mosaic virus (PepMV)	Pepper mild mottle virus (PMMoV)
Phytophthora heavae	Potato aucuba mosaic virus (PaMV)
Potato latent virus (PotLV)	Potato leafroll virus (PLRV)
Potato mop-top virus (PMTV)	Potato virus A (PVA)

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Does Not Cross-react With:

Potato virus M (PVM)	Potato virus S (PVS)
Potato virus T (PVT)	Potato virus V (PVV)
Ralstonia solanacearum (Rs)	Tobacco etch virus (TEV)
Tobacco mosaic virus (TMV)	Tobacco rattle virus (TRV)
Tobacco streak virus (TSV)	Tomato mosaic virus (ToMV)
Tomato spotted wilt virus (TSWV)	

Diagnostic Specificity

True Negatives 14
Correct Diagnoses 14
Percent 100%

Selectivity:

No Matrix Effect Observed With:				
Potato leaves	Tobacco leaves	Tomato leaves		

Repeatability

Reproducibility

Number of Samples	10	Number of Samples	10
Replicates per Sample	3	Replicates per Sample	3
Average Percent Agreement 10 Between Replicates	100%	Number of Operators	5
		Average Percent Agreement Between Replicates Between Operators	100%

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