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Test Characteristics

Test Name Potato virus A Capture Antibody Polyclonal (Rabbit)

Catalog Number 60000 Detection Antibody Polyclonal (Rabbit)

Acronym PVA

AcronymPVAFormatLateral Flow DeviceGenusPotyvirusDiluentsSEB4

Sample Dilution 1:20

Summary

The Potato virus A (PVA) ImmunoStrip is used to detect the presence of PVA in potato leaves. PVA is a member of the Potyvirus genus known for their non-enveloped, flexuous, filamentous virus particles. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

Diagnostic Sensitivity

Analytical Sensitivity

True Positives 19 Limit of Detection: 1:2,000 dilution of infected tissue (pathogen titer unknown)

Correct Diagnoses 18

Percent 94.7%

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of PVA. Eighteen distinct samples of PVA have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

None Known

Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Clavibacter michiganensis subsp. sepedonicus (Cms)	
Cucumber green mottle mosaic virus (CGMMV)	Cucumber mosaic virus (CMV)	
Impatiens necrotic spot virus (INSV)	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 M (PVM)	
Potato virus S (PVS)	Potato virus X (PVX)	
Potato virus Y (PVY)	Tobacco etch virus (TEV)	
Tobacco mosaic virus (TMV)	Tobacco streak virus (TSV)	
Tomato mosaic virus (ToMV)	Tomato spotted wilt virus (TSWV)	

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Diagnostic Specificity

True Negatives 15
Correct Diagnoses 15
Percent 100%

Selectivity:

No Matrix Effect Observed With:				
Potato leaves				

Repeatability

Reproducibility

Replicates Between Operators

Number of Samples19Number of Samples10Replicates per Sample2Replicates per Sample2Average Percent Agreement
Between Replicates100%Number of Operators3Average Percent Agreement Between
100%100%

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