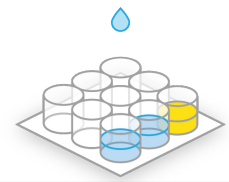


Validation Report: ELISA

PSA/SRA 34503 • *Xylella fastidiosa* (Xf)



Test Characteristics

Test Name	Xylella fastidiosa	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	34503	Detection Antibody	Polyclonal (Rabbit)
Acronym	Xf	Format	DAS-ELISA
Genus	Xylella	Diluents	GEB/RUB6
		Sample Dilution	1:10

Summary

This ELISA product is a qualitative assay for the detection of *Xylella fastidiosa* (Xf), the causal agent of bacterial leaf scorch, Pierce's disease, and phony peach disease. This pathogen has a wide host range, including almond, blackberry, citrus, grapevine, and olive.

Diagnostic Sensitivity

True Positives	70
Correct Diagnoses	70
Percent	100%

Analytical Sensitivity

Limit of Detection: 2x10⁶ CFU/mL

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

Xylella fastidiosa subsp. fastidiosa	Xylella fastidiosa subsp. multiplex
Xylella fastidiosa subsp. sandyi	Xylella fastidiosa Almond isolate
Xylella fastidiosa Blueberry isolate	Xylella fastidiosa Elm isolate
Xylella fastidiosa Grape isolate	Xylella fastidiosa Oak isolate
Xylella fastidiosa Plum isolate	Xylella fastidiosa Temecula isolate

Exclusivity:

Cross-reacts With:

Pseudomonas syringae pv. syringae	Xanthomonas arboricola pv. pruni
-----------------------------------	----------------------------------

Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Apple mosaic virus (ApMV)
Arabis mosaic virus (ArMV)	Blueberry leaf mottle virus (BLMoV)
Blueberry scorch virus (BIScV)	Blueberry shock virus (BIShV)
Blueberry shoestring virus (BSSV)	Cherry leaf roll virus (CLRV)
Cucumber mosaic virus (CMV)	Citrus tristeza virus (CTV)
Grapevine fanleaf virus (GFLV)	Impatiens necrotic spot virus (INSV)



Agdia, Inc.
52642 County Road 1
Elkhart, IN 46514
574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com

Does Not Cross-react With:

Spiroplasma citri (Sc)	Strawberry latent ringspot virus (SLRSV)
Tobacco ringspot virus (TRSV)	Tobacco streak virus (TSV)
Tomato ringspot virus (ToRSV)	Plum pox virus (PPV)
Prune dwarf virus (PDV)	Prunus necrotic ringspot virus (PNRSV)
Peach rosette mosaic virus (PRMV)	Grapevine red blotch-associated virus (GRBaV)
Agrobacterium tumefaciens	Acidovorax avenae pv. avenae
Candidatus Liberibacter asiaticus	Clavibacter michiganensis pv. michiganensis
Clavibacter michiganensis pv. nebraskensis	Clavibacter michiganensis pv. sepedonicus
Clavibacter michiganensis pv. insidiosus	Clavibacter michiganensis pv. tessellarius
Dickeya chrysanthemi	Erwinia tracheiphila
Erwinia carotovora	Erwinia amylovora
Pantoea agglomerans	Pantoea stewartii
Pectobacterium atrosepticum	Pectobacterium carotovora pv. carotovora
Phytophthora cactorum	Phytophthora palmivora
Phytophthora heveae	Phytophthora infestans
Ralstonia solanacearum race 1	Ralstonia solanacearum race 4
Rhodococcus fasciens	Xanthomonas arboricola pv. celebensis
Xanthomonas campestris pv. begoniae	Xanthomonas campestris pv. citri
Xanthomonas campestris pv. dieffenbachiae	Xanthomonas campestris pv. vesicatoria
Xanthomonas campestris pv. zinnia	Xanthomonas hortorum pv. pelargonium

Diagnostic Specificity

True Negatives 214
Correct Diagnoses 214
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Almond petioles	American beech petioles	American elm petioles	Bindweed petioles
Black cherry petioles	Black walnut petioles	Blueberry petioles	Bradford peach petioles
Cherry plum petioles	Citrus petioles	Cranberry petioles	Cutleaf geranium petioles
Daylily petioles	Grape petioles	Ivy geranium petioles	Lavender petioles
Lilac petioles	Maple petioles	Oleander petioles	Olive petioles
Ornamental cherry petioles	Peach petioles	Pecan petioles	Periwinkle petioles
Ragweed petioles	Raspberry petioles	Red maple petioles	Red oak petioles
Red peach petioles	Redbud petioles	River birch petioles	Rosemary petioles
Sand cherry petioles	Silver maple petioles	Spanish oak petioles	Sugar maple petioles
Sumac petioles	Swamp white oak petioles	Sycamore petioles	Weeping cherry petioles
White mulberry petioles	Wild black raspberry petioles	Wild grape petioles	



Agdia, Inc.
52642 County Road 1
Elkhart, IN 46514
574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com