ImmunoStrip® Validation Report

On-site Plant Pathogen Testing

Xanthomonas hortorum pv. *pelargonii*

ISK/STX 32503

ImmunoStrip®

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Test Characteristics

Test Name	Xanthomonas hortorum pv. pelargonii	**Capture Antibody**	Monoclonal (Mouse)
Catalog Number	32503	**Detection Antibody**	Monoclonal (Mouse)
Acronym	Xhp	**Format**	Lateral Flow Device
Genus	Xanthomonas	**Diluents**	SEB1
		Sample Dilution	1:20

Summary

The Xanthomonas hortorum pv. pelargonii (Xhp) ImmunoStrip is used to detect the presence of Xhp, the causal agent of bacterial blight of geranium, in pelargoniums and bacterial cultures. The Xanthomonas genus is known for having 27 plant disease causing species able to infect 400 different plant species. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

Diagnostic Sensitivity

True Positives	43
Correct Diagnoses	43
Percent	100%

Analytical Sensitivity

Limit of Detection: $2x10^5$ cells/mL

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of Xhp. Forty-three distinct samples of Xhp have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

Xanthomonas arboricola pv. celebensis	Unknown pathovar of Xanthomonas arboricola isolated from Pelargonium
	Unknown pathovar of Xanthomonas arboricola isolated from Poinsettia

Does Not Cross-react With:

Agrobacterium tumefaciens	Pantoea agglomerans
Phytophthora (Phyt)	Pseudomonas syringae pv. syringae (Pss)
Pythium ultimum	Ralstonia solanacearum (Rs)
Stentotrophomonas maltiphilia	Xanthomonas albilineans (Xalb)
Xanthomonas arboricola pv. poinsettiicola	Xanthomonas arboricola pv. pruni (Xap)
Xanthomonas axonopodis pv. begoniae (Xab)	Xanthomonas axonopodis pv. citri (Xac)
Xanthomonas axonopodis pv. dieffenbachiae (Xad)	Xanthomonas axonopodis pv. phaseoli
Xanthomonas axonopodis pv. vesicatoria	Xanthomonas campestris pv. armoraciae (Xcarm)
Xanthomonas campestris pv. campestris (Xcc)	Xanthomonas campestris pv. zinnae
Xanthomonas citri pv. aurantifolii	Xanthomonas citromelo
Xanthomonas gardneri	Xanthomonas fragariae
Xanthomonas oryzae pv. oryzae (Xoo)	Xanthomonas perforans
Xanthomonas translucens pv. translucens (Xtt)	Xanthomonas vesicatoria

Diagnostic Specificity

True Negatives	56
Correct Diagnoses	56
Percent	100%

Selectivity:

No Matrix Effect Observed With:			
Bacterial cultures	Pelargonium leaves	Pelargonium petioles	Pelargonium stems

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