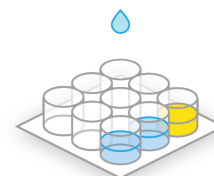


Validation Report: ELISA

BRA 71100 • *Xanthomonas albilineans* (Xalb)



Test Characteristics

Test Name	Xanthomonas albilineans	Capture Antibody	Polystyrene Plate
Catalog Number	71100	Detection Antibody	Monoclonal (Mouse)
Acronym	Xalb	Format	ACP-ELISA
Genus	Xanthomonas	Diluents	CCB/MPBST
		Sample Dilution	Bacterial Streaming

Summary

This ELISA test is a qualitative serological assay for the detection of *Xanthomonas albilineans* (Xalb), the causal agent of leaf scald, in bacterial cultures and sugarcane tissue soaks. Xalb is a member of the *Xanthomonas* genus known for their gram-negative, aerobic, short rod-shaped, yellow bacteria.

Diagnostic Sensitivity

True Positives	19
Correct Diagnoses	19
Percent	100%

Analytical Sensitivity

Limit of Detection: 1.5×10^5 cells/mL

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

Xalb-HV5 (Serotype II) (Burkina Faso)	Xalb-G7 (Serotype III) (Guadeloupe)
Xalb-GPE2 (Serotype I) (France)	

Exclusivity:

Cross-reacts With:

Xanthomonas axonopodis pv. phaseoli	
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Does Not Cross-reacts With:

Acidovorax avenae pv. avenae	Acidovorax avenae pv. citrulli
Agrobacterium radiobacter	Agrobacterium rhizogenes
Agrobacterium vitas	Agrobacterium tumefaciens
Burkholderia glumae	Clavibacter michiganensis pv. insidiosus
Clavibacter michiganensis pv. michiganensis	Clavibacter michiganensis pv. nebraskensis
Clavibacter michiganensis pv. sepedonicus (mucoid)	Clavibacter michiganensis pv. tessellarius
Clavibacter poinsettiae	Curtobacterium flaccumfaciens subsp. poinsettiae
Dickeya chrysanthemi	Erwinia amylovora
Pantoea agglomerans	Pantoea stewartii



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Does Not Cross-reacts With:

Pectobacterium atrosepticum	Pectobacterium carotovora pv. carotovora
Pseudomonas avenae	Pseudomonas fuscovaginae
Pseudomonas savastanoi pv. glycineae	Pseudomonas savastanoi pv. phaseolicola
Pseudomonas syringae pv. syringae	Pseudomonas syringae pv. tomato
Ralstonia solanacearum	Spiroplasma citri
Stenotrophomonas maltophilia	Xanthomonas arboricola pv. celebensis
Xanthomonas arboricola pv. pruni	Xanthomonas axonopodis pv. begoniae
Xanthomonas axonopodis pv. citri	Xanthomonas axonopodis pv. diffenbachia
Xanthomonas axonopodis pv. phaseoli	Xanthomonas campestris pv. amoraciae
Xanthomonas campestris pv. begoniae	Xanthomonas campestris pv. campestris
Xanthomonas campestris pv. diffenbachia	Xanthomonas campestris pv. pelargonii
Xanthomonas campestris pv. zinnea	Xanthomonas citri pv. aurantifolii
Xanthomonas citromelo	Xanthomonas hortorum pv. pelargonii
Xanthomonas oryzae pv. oryzae	Xanthomonas translucens pv. translucens
Xanthomonas vesicatoria	Xylella fastidiosa

Diagnostic Specificity

True Negatives 58
Correct Diagnoses 58
Percent 100%

Selectivity:**No Matrix Effect Observed With:**

Bacterial cultures	Sugarcane leaves		
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