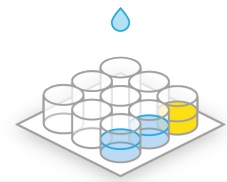


Validation Report: ELISA

BRA 23700 • *Xanthomonas axonopodis* pv. *begoniae* (Xab)



Test Characteristics

Test Name	Xanthomonas axonopodis pv. begoniae	Capture Antibody	Polystyrene Plate
Catalog Number	23700	Detection Antibody	Monoclonal (Mouse)
Acronym	Xab	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 axonopodis* pv. *begoniae* (Xab), the causal agent of begonia bacteriosis, in bacterial cultures and plant vascular tissue streams. Xab is a member of the *Xanthomonas* genus known for having 27 plant disease causing species able to infect 400 different plant species.

Diagnostic Sensitivity

True Positives	21
Correct Diagnoses	19
Percent	90.5%

Analytical Sensitivity

Limit of Detection: 1.0 x 10⁶ CFU/mL

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of Xab, except isolate A915. Nineteen distinct samples of Xab have been experimentally proven to be detected, including HV5-Ser2 (Burkina Faso, West Africa).

Exclusivity:

Cross-reacts With:

None known

Does Not Cross-react With:

Acidovorax avenae pv. citrulli (Aac)	Acidovorax avenae pv. avenae
Agrobacterium rhizogenes	Agrobacterium radiobacter
Agrobacterium tumefaciens	Agrobacterium vitas
Burkholderia glumae (Bg)	Curtobacterium flaccumfaciens subsp. poinsettiae
Clavibacter michiganensis pv. insidiosus (Cmi)	Clavibacter michiganensis pv. michiganensis (Cmm)
Clavibacter michiganensis pv. nebraskensis (Cmn)	Clavibacter michiganensis pv. sepedonicus (mucoid) (Cms)
Clavibacter michiganensis pv. tessellarius (Cmt)	Dickeya chrysanthemi (Dickeya)
Clavibacter poinsettiae	Erwinia amylovora (Ea)
Ochrobactrum lupini	Ochrobactrum sp. N11
Pantoea agglomerans	Pantoea stewartii (Pstew)
Pectobacterium atrosepticum (Patro)	Pectobacterium carotovora pv. carotovora



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Does Not Cross-react With:

<i>Pseudomonas fuscovaginae</i>	<i>Pseudomonas savastanoi</i> pv. <i>glycinea</i>
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> (Psph)	<i>Pseudomonas syringae</i> pv. <i>syringae</i> (Pss)
<i>Pseudomonas syringae</i> pv. <i>tomato</i> (Pst)	<i>Ralstonia solanacearum</i> (Rs)
<i>Spiroplasma citri</i> (Sc)	<i>Stenotrophomonas maltophilia</i>
<i>Xanthomonas albilineans</i> (Xalb)	<i>Xanthomonas arboricola</i> pv. <i>celebensis</i>
<i>Xanthomonas arboricola</i> pv. <i>pruni</i> (Xap)	<i>Xanthomonas axonopodis</i> pv. <i>citri</i> (Xac)
<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i>	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i> (Xcarm)
<i>Xanthomonas campestris</i> pv. <i>campestris</i> (Xc)	<i>Xanthomonas campestris</i> pv. <i>dieffenbachiae</i>
<i>Xanthomonas campestris</i> pv. <i>pelargonii</i>	<i>Xanthomonas campestris</i> pv. <i>phaseoli</i>
<i>Xanthomonas campestris</i> pv. <i>translucens</i>	<i>Xanthomonas campestris</i> pv. <i>zinniae</i>
<i>Xanthomonas citri</i> pv. <i>aurantifoliae</i>	<i>Xanthomonas citromelo</i>
<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i> (Xhp)	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (Xoo)
<i>Xanthomonas vesicatoria</i>	<i>Xylella fastidiosa</i> (Xf)

Diagnostic Specificity

True Negatives 48
Correct Diagnoses 48
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Bacterial cultures	Plant tissue		



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