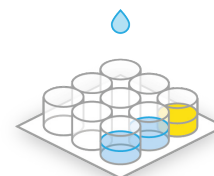


Validation Report: ELISA

BRA 85000 • *Xanthomonas oryzae* pv. *oryzae* (Xoo)



Test Characteristics

Test Name	Xanthomonas oryzae pv. oryzae	Capture Antibody	Polystyrene Plate
Catalog Number	85000	Detection Antibody	Monoclonal (Mouse)
Acronym	Xoo	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 oryzae* pv. *oryzae* (Xoo), formally *Xanthomonas campestris* pv. *oryzae*, the causal agent of bacterial blight in rice tissue soaks and bacterial cultures. The *Xanthomonas* genus is known for having 27 plant disease causing species able to infect 400 different plant species.

Diagnostic Sensitivity

True Positives	7
Correct Diagnoses	7
Percent	100%

Analytical Sensitivity

Limit of Detection: 4 x 10⁶ CFU/mL

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of Xoo. Seven distinct samples of Xoo have been experimentally proven to be detected, including strain JBG5 (USA).

Exclusivity:

Cross-reacts With:

Spiroplasma citri (Sc)	Xanthomonas campestris pv. armoraciae (Xcarm)
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Does Not Cross-react With:

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



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

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Does Not Cross-react With:

Pectobacterium carotovora pv. carotovora	Pseudomonas fuscovaginae
Pseudomonas savastanoi pv. phaseolicola (PspH)	Pseudomonas savastanoi pv. glycineae
Pseudomonas syringae pv. syringae (Pss)	Pseudomonas syringae pv. tomato (Pst)
Ralstonia solanacearum (Rs)	Stenotrophomonas maltophilia
Xanthomonas albilineans (Xalb)	Xanthomonas arboricola pv. celebensis
Xanthomonas arboricola pv. pruni (Xap)	Xanthomonas axonopodis pv. citri (Xac)
Xanthomonas axonopodis pv. phaseoli	Xanthomonas axonopodis pv. begoniae (Xab)
Xanthomonas axonopodis pv. dieffenbachia (Xad)	Xanthomonas campestris pv. begoniae
Xanthomonas campestris pv. campestris	Xanthomonas campestris pv. dieffenbachia
Xanthomonas campestris pv. pelargonii	Xanthomonas campestris pv. phaseoli
Xanthomonas campestris pv. vesicatoria (Xcv)	Xanthomonas campestris pv. zinnea
Xanthomonas citri pv. aurantifolii	Xanthomonas citromelo
Xanthomonas hortorum pv. pelargonii (Xhp)	Xanthomonas translucens pv. translucens
Xanthomonas vesicatoria	

Diagnostic Specificity

True Negatives 47
Correct Diagnoses 47
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Bacterial cultures	Tissue soaks		



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