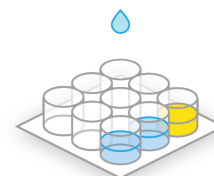


Validation Report: ELISA

BRA 62100 • *Burkholderia glumae* (Bg)



Test Characteristics

Test Name	Burkholderia glumae	Capture Antibody	Polystyrene Plate
Catalog Number	62100	Detection Antibody	Monoclonal (Mouse)
Acronym	Bg	Format	ACP ELISA
Genus	Burkholderia	Diluents	CCB/MPBST
		Sample Dilution	Bacterial Streaming

Summary

This ELISA test is a qualitative serological assay for the detection of *Burkholderia glumae* (Bg), the causal agent of grain rot, in rice leaf and seed as well as bacterial cultures. Bg is a member of the *Burkholderia* genus, formally part of *Pseudomonas*, known for their Gram-negative, obligately aerobic, rod-shaped bacteria.

Diagnostic Sensitivity

True Positives	13
Correct Diagnoses	13
Percent	100%

Analytical Sensitivity

Limit of Detection: 6.2×10^5 cells/mL

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of Bg. Thirteen distinct samples of Bg have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

Trinickia caryophylli

Does Not Cross-react With:

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



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Does Not Cross-react With:

<i>Pseudomonas fuscovaginae</i>	<i>Pseudomonas savastanoi</i> pv. <i>glycineae</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>begoniae</i> (Xab)
<i>Xanthomonas axonopodis</i> pv. <i>citri</i> (Xac)	<i>Xanthomonas axonopodis</i> pv. <i>diffenbachia</i> (Xad)
<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> (Xaph)	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i> (Xca)
<i>Xanthomonas campestris</i> pv. <i>begoniae</i>	<i>Xanthomonas campestris</i> pv. <i>campestris</i> (Xcc)
<i>Xanthomonas campestris</i> pv. <i>diffenbachia</i>	<i>Xanthomonas campestris</i> pv. <i>oryzae</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>zinnia</i>
<i>Xanthomonas citri</i> pv. <i>aurantifolii</i>	<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i> (Xhp)
<i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (Xoo)	<i>Xanthomonas translucens</i> pv. <i>translucens</i> (Xtt)
<i>Xanthomonas vesicatoria</i>	

Diagnostic Specificity

True Negatives 49
Correct Diagnoses 49
Percent 100%

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

Bacterial cultures	Plant tissue	Plant seed	
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