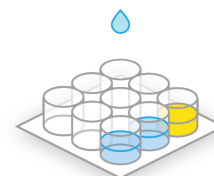


Validation Report: ELISA

BRA 44001 • *Clavibacter michiganensis* subsp. *michiganensis* (Cmm)



Test Characteristics

Test Name	Clavibacter michiganensis subsp. michiganensis	Capture Antibody	Polystyrene Plate
Catalog Number	44001	Detection Antibody	Monoclonal (Mouse)
Acronym	Cmm	Format	ACP-ELISA
Genus	Clavibacter	Diluents	CCB/MPBST
		Sample Dilution	Bacterial Streaming

Summary

This ELISA test is a qualitative serological assay for the detection of *Clavibacter michiganensis* subsp. *michiganensis* (Cmm), the causal agent of bacterial canker in tomato. This ELISA can be used to test bacterial cultures and tissue soaks. Cmm is a member of the *Clavibacter* genus known for their aerobic, non-motile, Gram-positive, non-spore-forming, curved rod shaped bacteria.

Diagnostic Sensitivity

True Positives	12
Correct Diagnoses	12
Percent	100%

Analytical Sensitivity

Limit of Detection: 7.9×10^4 CFU/mL

Analytical Specificity

Inclusivity:

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

Exclusivity:

Cross-reacts With:

Clavibacter michiganensis subsp. nebraskensis	Clavibacter michiganensis subsp. sepedonicus (mucoid)
Xanthomonas campestris pv. campestris	

Does Not Cross-react With:

Acidovorax avenae pv. avenae	Pseudomonas syringae pv. tomato
Acidovorax avenae pv. citrulli	Spiroplasma citri
Agrobacterium radiobacter	Stenotrophomonas maltophilia
Agrobacterium rhizogenes	Xanthomonas albilineans
Agrobacterium vitas	Xanthomonas arboricola pv. celebensis
Agrobacterium tumefaciens	Xanthomonas arboricola pv. pruni
Burkholderia glumae	Xanthomonas axonopodis pv. begoniae
Clavibacter michiganensis subsp. insidiosus	Xanthomonas axonopodis pv. citri
Clavibacter michiganensis subsp. tessellarius	Xanthomonas axonopodis pv. diffenbachia



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Does Not Cross-react With:

<i>Curtobacterium flaccumfaciens</i> subsp. <i>poinsettiae</i>	<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i>
<i>Dickeya chrysanthemi</i>	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i>
<i>Erwinia amylovora</i>	<i>Xanthomonas campestris</i> pv. <i>zinniae</i>
<i>Pantoea agglomerans</i>	<i>Xanthomonas citri</i> pv. <i>aurantifolia</i>
<i>Pantoea stewartii</i>	<i>Xanthomonas citromelo</i>
<i>Pectobacterium atrosepticum</i>	<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i>
<i>Pectobacterium carotovora</i> pv. <i>carotovora</i>	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>
<i>Pseudomonas fuscovaginae</i>	<i>Xanthomonas translucens</i> pv. <i>translucens</i>
<i>Pseudomonas savastanoi</i> pv. <i>glycineae</i>	<i>Xanthomonas vesicatoria</i>
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>	<i>Xylella fastidiosa</i>
<i>Pseudomonas syringae</i> pv. <i>syringae</i>	

Diagnostic Specificity

True Negatives 45
Correct Diagnoses 45
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Bacterial Cultures	Tissue soaks	Tomato	



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