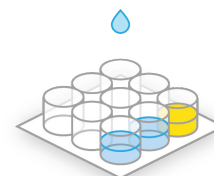


Validation Report: ELISA

SRA 80003 • *Pectobacterium atrosepticum* (Patro)



Test Characteristics

Test Name	Pectobacterium atrosepticum	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	80003	Detection Antibody	Monoclonal (Mouse)
Acronym	Patro	Format	Compound ELISA
Genus	Pectobacterium	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of *Pectobacterium atrosepticum* (Patro), the causal agent of potato blackleg disease and potato soft rot disease, in potato leaves, sprouts, and tubers. Patro was formally known as *Erwinia carotovora* subsp. *atroseptica* and *Pectobacterium carotovora* subsp. *atroseptica*.

Diagnostic Sensitivity

True Positives	24
Correct Diagnoses	25
Percent	96%

Analytical Sensitivity

Limit of Detection: 4.0×10^4 cells/mL

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

Patro-196 (Serogroup XX) (Canada) (NCPBP# 3404)	Patro-E555 (Strain 198) (Serogroup XXII) (Canada) (NCPBP# 3406)
Patro-SR8 (Strain 31) (Serogroup I) (WI, USA) (ICPB# EA227)	

Isolates and Geographic Regions Not Detected:

Patro-E17 (Strain 6) (Serogroup XVIII) (Canada) (ICPB# EA228)	
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Exclusivity:

Cross-reacts With:

Pectobacterium versatile (Strain F-139) (Netherlands) (ICPB# EC302)	
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Does Not Cross-react With:

Acidovorax avenae pv. avenae	Acidovorax avenae pv. citrulli (Aac)
Agrobacterium tumefaciens	Burkholderia glumae (Bg)
Clavibacter michiganensis subsp. insidiosus (Cmi)	Clavibacter michiganensis subsp. michiganensis (Cmm)
Clavibacter michiganensis subsp. nebraskensis (Cmn)	Clavibacter michiganensis subsp. sepedonicus (Cms)
Clavibacter michiganensis subsp. tessellarius (Cmt)	Curtobacterium flaccumfaciens subsp. poinsettiae
Dickeya chrysanthemi	Erwinia amylovora (Ea)



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Does Not Cross-react With:

Pantoea agglomerans	Pantoea stewartii (Pstew)
Pectobacterium carotovora pv. carotovora	Pseudomonas fuscovaginae
Pseudomonas savastanoi pv. glycineae	Pseudomonas savastanoi pv. phaseolicola (Psph)
Pseudomonas syringae pv. tomato (Pst)	Ralstonia solanacearum (Rs)
Spiroplasma citri (Sc)	Stentotrophomonas maltophilia
Xanthomonas albilineans (Xalb)	Xanthomonas arboricola pv. celebensis
Xanthomonas axonopodis pv. begonia	Xanthomonas axonopodis pv. citri (Xac)
Xanthomonas axonopodis pv. dieffenbachia (Xad)	Xanthomonas axonopodis pv. phaseoli
Xanthomonas campestris pv. amoraciae (Xcarm)	Xanthomonas campestris pv. campestris
Xanthomonas citromelo	Xanthomonas hortorum pv. pelargonii (Xhp)
Xanthomonas oryzae pv. oryzae (Xoo)	Xanthomonas translucens pv. translucens
Xanthomonas vesicatoria	Verticillium dahlia
Xylella fastidiosa (Xf)	

Diagnostic Specificity

True Negatives 52
Correct Diagnoses 52
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Potato leaves	Potato sprouts	Potato tubers	



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