



ImmunoStrip® Validation Report

On-site Plant Pathogen Testing

Erwinia amylovora (Ea)

ISK/STX 52101

ImmunoStrip®

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Test Characteristics

Test Name	Erwinia amylovora	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	52101	Detection Antibody	Monoclonal (Mouse)
Acronym	Ea	Format	Lateral Flow Device
Genus	Erwinia	Diluents	SEB1
		Sample Dilution	1:20

Summary

The *Erwinia amylovora* (Ea) ImmunoStrip is used to detect the presence of Ea, the causal agent of Fire Blight, in apple and pear trees. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

Diagnostic Sensitivity

True Positives	35
Correct Diagnoses	35
Percent	100%

Analytical Sensitivity

Limit of Detection: 4.0×10^5 CFU/mL

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

Ea-1-96	Ea-CA11 (MI, USA)
Ea-CA3R (CA, USA)	Ea-CFBP1430 (France)
Ea-CTBT1-1 (CT, USA)	Ea-CTMF01-1
Ea-CTST01-1 (CT, USA)	Ea-Ea110 (MI, USA)
Ea-Ea322 (France)	Ea-EJP557 (Japan)
Ea-IH3-1 (SC, USA)	Ea-LA029 (WA, USA)
Ea-Leb B-66 (Lebanon)	Ea-MAGFLF1
Ea-MASHBO02-2	Ea-MR1 (MI, USA)
Ea-NHSB01-1	Ea-nydr001
Ea-OR1 (OR, USA)	Ea-OR6 (OR, USA)
Ea-RBA4 (MI, USA)	Ea-RISTBO01-1
Ea-S59/5 (United Kingdom) (ATCC® 15580™)	Ea-UT5P4 (UT, USA)
Ea-UTRJ2 (UT, USA)	Ea-VTDMSF01-1
Ea-WSDA-87-73 (WA, USA)	

Exclusivity:

Cross-reacts With:

Erwinia pyrifoliae	
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Does Not Cross-react With:

Burkholderia glumae (Bg)	Pectobacterium carotovorum
Erwinia mallotivora	Pantoea agglomerans
Pantoea stewartii (Pstew)	Xanthomonas campestris (Xc)

Diagnostic Specificity

True Negatives 35
Correct Diagnoses 35
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Malus bark	Malus fruit	Malus leaves	Malus stems
Pyrus bark	Pyrus fruit	Pyrus leaves	Pyrus stems

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