

Validation Report: ELISA

SRA 19200 • *Blueberry shock virus* (BIShV)



Test Characteristics

Test Name	Blueberry shock virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	19200	Detection Antibody	Monoclonal (Mouse)
Acronym	BIShV	Format	Compound ELISA
Genus	Illavirus	Diluents	GEB/ECI and GEB3/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Blueberry shock virus (BIShV) in blueberry leaves. BIShV is a member of the Illavirus genus known for their non-enveloped, quasi-spherical-shaped virus particles.

Diagnostic Sensitivity

True Positives	37
Correct Diagnoses	37
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:8,100 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of BIShV. Thirty-seven distinct samples of BIShV have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Apple mosaic virus (ApMV)	American plum line pattern virus (APLPV)
Asparagus virus 2 (AV-2)	Prune dwarf virus (PDV)
Prunus necrotic ringspot virus (PNRSV)	Tobacco streak virus (TSV)



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Diagnostic Specificity

True Negatives 39
Correct Diagnoses 39
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Blueberry leaves	Tobacco leaves		

