

Validation Report: ELISA

SRA 72200 • *Banana streak OL virus* (BSOLV)



Test Characteristics

Test Name	Banana streak OL virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	72200	Detection Antibody	Polyclonal (Rabbit)
Acronym	BSOLV	Format	DAS-ELISA
Genus	Badnavirus	Diluents	GEB2/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Banana streak OL virus (BSOLV), the causal agent of Banana streak disease, in banana crops. This test is not validated to test sugarcane tissue. BSOLV is a member of the Badnavirus genus known for their nonenveloped bacilliform virus particles.

Diagnostic Sensitivity

True Positives 32
Correct Diagnoses 32
Percent 100%

Analytical Sensitivity

Limit of Detection: 1:3,038 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

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

Exclusivity:

Cross-reacts With:

Banana streak Cavendish virus (BSCaV)	Sugarcane bacilliform virus (SCBV)
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Does Not Cross-react With:

None known	
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Diagnostic Specificity

True Negatives 264
Correct Diagnoses 264
Percent 100%

Selectivity:

No Matrix Effect Observed With:

Banana leaves

Matrix Effect Observed With:

Sugarcane leaves



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