

Validation Report: ELISA

SRA 24100 • Southern bean mosaic virus (SBMV)



Test Characteristics

Test Name	Southern bean mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	24100	Detection Antibody	Polyclonal (Rabbit)
Acronym	SBMV	Format	DAS-ELISA
Genus	Sobemovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Southern bean mosaic virus (SBMV), the causal agent of mosaic and mottle disease of bean, in bean and soybean leaves. SBMV is a member of the Sobemovirus genus known for their icosahedral-shaped virus particles.

Diagnostic Sensitivity

True Positives	20
Correct Diagnoses	20
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:64,800 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

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

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

None known	
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Diagnostic Specificity

True Negatives	13
Correct Diagnoses	13
Percent	100%

Selectivity:

No Matrix Effect Observed With:

Bean leaves	Soybean leaves		
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Agdia, Inc.
52642 County Road 1
Elkhart, IN 46514
574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com

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