

Validation Report: ELISA

SRA 19500 • *Barley stripe mosaic virus* (BSMV)



Test Characteristics

Test Name	Barley stripe mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	19500	Detection Antibody	Polyclonal (Rabbit)
Acronym	BSMV	Format	DAS-ELISA
Genus	Hordeivirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Barley stripe mosaic virus (BSMV) in barley, corn, and wheat leaves. BSMV is a member of the Hordeivirus genus known for their non-enveloped, rigid rod-shaped virus particles.

Diagnostic Sensitivity

True Positives	28
Correct Diagnoses	28
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:388,800 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of BSMV. Twenty-eight distinct samples of BSMV 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	21
Correct Diagnoses	21
Percent	100%

Selectivity:

No Matrix Effect Observed With:			
Barley leaves	Bean leaves	Corn leaves	Corn seeds
Corn seedlings	Grass leaves	Wheat leaves	



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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