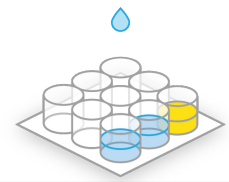


Validation Report: ELISA

PSA/SRA 46000 • *Bean common mosaic virus (BCMV)*



Test Characteristics

Test Name	Bean common mosaic virus	Capture Antibody	Polystyrene Plate
Catalog Number	46000	Detection Antibody	Monoclonal (Mouse)
Acronym	BCMV	Format	ACP-ELISA
Genus	Potyvirus	Diluents	IEB/ECI
		Sample Dilution	1:100

Summary

This ELISA test is a qualitative serological assay for the detection of Bean common mosaic virus (BCMV) and Bean common mosaic necrosis virus (BCMNV) in bean leaves. This is not a specific test for BCMV or BCMNV. BCMV and BCMNV are members of the Potyvirus genus known for their non-enveloped, flexuous, filamentous virus particles.

Diagnostic Sensitivity

True Positives	19
Correct Diagnoses	19
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:6,210 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

BCMNV (BCMV serotype-A)	BCMV serotype-B
BCMV-NY15	

Exclusivity:

Cross-reacts With:

Papaya ringspot virus (PRSV)	Pepper mottle virus (PepMoV)
Plum pox virus (PPV)	Potato virus A (PVA)
Potato virus Y (PVY)	Soybean mosaic virus (SMV)
Tobacco etch virus (TEV)	Watermelon mosaic virus (WMV)
Zucchini yellow mosaic virus (ZYMV)	

Does Not Cross-react With:

Wheat streak mosaic virus (WSMV)	
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Diagnostic Specificity

True Negatives 12
Correct Diagnoses 12
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Bean leaves			



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