

Validation Report: ELISA

SRA 58200 • *Raspberry bushy dwarf virus* (RBDV)



Test Characteristics

Test Name	Raspberry bushy dwarf virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	58200	Detection Antibody	Monoclonal (Mouse)
Acronym	RBDV	Format	DAS-ELISA
Genus	Idaeovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Raspberry bushy dwarf virus (RBDV), the causal agent of raspberry symptomless decline, in strawberry leaves. RBDV is a member of the Idaeovirus genus known for their non-enveloped, isometric, slightly flattened-shaped virus particles.

Diagnostic Sensitivity

True Positives	43
Correct Diagnoses	43
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:810 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of RBDV. Forty-three distinct samples of RBDV 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	43
Correct Diagnoses	43
Percent	100%

Selectivity:

No Matrix Effect Observed With:

Berry leaves	Rubus leaves	Strawberry leaves	Tobacco leaves
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