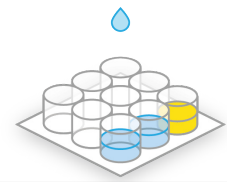


Validation Report: ELISA

SRA 26500 • Barley yellow dwarf virus-MAV (BYDV-MAV)



Test Characteristics

Test Name	Barley yellow dwarf virus-MAV	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	26500	Detection Antibody	Monoclonal (Mouse)
Acronym	BYDV-MAV	Format	Compound ELISA
Genus	Luteovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Barley yellow dwarf virus-MAV (BYDV-MAV), one of the causal agents of Barley yellow dwarf disease, in cereal leaves and roots as well as Aphids. BYDV-MAV is a member of the Luteovirus genus known for their non-enveloped, spherical-shaped virus particles. This virus is phloem limited and special care should be used during extraction. Please see the user guide for full details.

Diagnostic Sensitivity

True Positives	25
Correct Diagnoses	25
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:300 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

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

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Barley yellow dwarf virus-PAV (BYDV-PAV)	Barley yellow dwarf virus-RMV (BYDV-RMV)
Barley yellow dwarf virus-SGV (BYDV-SGV)	Cereal yellow dwarf virus-RPV (CYDV-RPV)



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Diagnostic Specificity

True Negatives 26
Correct Diagnoses 26
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Aphids	Barley leaves	Barley roots	Corn leaves
Corn roots	Grass leaves	Grass roots	Oat leaves
Oat roots	Wheat leaves	Wheat roots	



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