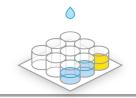
Validation Report: ELISA

SRA 27500 • Barley yellow dwarf virus-PAV (BYDV-PAV)



Test Characteristics

Test Name	Barley yellow dwarf virus-PAV
Catalog Number	27500
Acronym	BYDV-PAV
Genus	Luteovirus

Capture AntibodyPolyclonal (Rabbit)Detection AntibodyMonoclonal (Mouse)FormatCompound ELISADiluentsGEB/ECISample Dilution1:10

Summary

This ELISA is a qualitative serological assay intended for the detection of Barley yellow dwarf virus-PAV (BYDV-PAV) in plant foliage. The test is best suited for testing leaf and root tissue. This virus is phloem limited and special care should be used during extraction.

Diagnostic Sensi	tivity	Analytical Sensitivity	
True Positives	14	Limit of Detection:	1:16,200 dilution of infected tissue (pathogen titer unknown)
Correct Diagnoses	14		
Percent	100%		

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of BYDV-PAV. Fourteen distinct samples of BYDV-PAV have been experimentally proven to be detected including samples of the New York isolate.

Exclusivity:

Cross-reacts With:	
None known	

Does Not Cross-react With:

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

Diagnostic Specificity

True Negatives	24
Correct Diagnoses	24
Percent	100%

Selectivity:

No Matrix Effect Observed With:				
Aphids	Barley leaves	Corn leaves	Grass leaves	
Oat leaves	Setaria lutesceas leaves	Setaria viridis leaves	Wheat leaves	

