

Validation Report: ELISA

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



Test Characteristics

Test Name	Barley yellow dwarf virus-PAV	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	27500	Detection Antibody	Monoclonal (Mouse)
Acronym	BYDV-PAV	Format	Compound ELISA
Genus	Luteovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

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 Sensitivity

True Positives	14
Correct Diagnoses	14
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:16,200 dilution of infected tissue (pathogen titer unknown)

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



Agdia, Inc.
52642 County Road 1
Elkhart, IN 46514
574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com

p201.3
Revised: 07/14/2021
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