

Validation Report: ELISA

SRA 28001 • Cereal yellow dwarf virus-RPV (CYDV-RPV)



Test Characteristics

Test Name	Cereal yellow dwarf virus-RPV	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	28001	Detection Antibody	Monoclonal (Mouse)
Acronym	CYDV-RPV	Format	Compound-ELISA
Genus	Polerovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Cereal yellow dwarf virus-RPV (CYDV-RPV) in cereal leaves. CYDV-RPV is a member of the Polerovirus genus known for their non-enveloped, spherical-shaped virus particles. This virus is phloem limited and special care should be used during extraction.

Diagnostic Sensitivity

True Positives	20
Correct Diagnoses	20
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:2,700 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

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

Exclusivity:

Cross-reacts With:

Barley yellow dwarf virus-RMV (BYDV-RMV)	
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Does Not Cross-react With:

Barley yellow dwarf virus-MAV (BYDV-MAV)	Barley yellow dwarf virus-PAV (BYDV-PAV)
Barley yellow dwarf virus-SGV (BYDV-SGV)	Cucurbit aphid-borne yellows virus (CABYV)

Diagnostic Specificity

True Negatives	18
Correct Diagnoses	18
Percent	100%

Selectivity:

No Matrix Effect Observed With:			
Corn leaves	Grass leaves	Wheat leaves	



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

p214.2
Revised: 04/12/2023
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