

# Validation Report: ELISA

SRA 17200 • High Plains wheat mosaic virus (HPWMoV)



## Test Characteristics

Test Name	High Plains wheat mosaic virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	17200	Detection Antibody	Polyclonal (Rabbit)
Acronym	HPWMoV	Format	DAS-ELISA
Genus	Emaravirus	Diluents	GEB/ECI
		Sample Dilution	1:10

## Summary

This ELISA test is a qualitative serological assay for the detection of High Plains wheat mosaic virus (HPWMoV) in barley, corn, and wheat leaf and corn seed. HPWMoV is a member of the Emaravirus genus known for their enveloped, spherical, four-segmented genomic virus particles. This test was formerly known as High plains virus (HPV) before taxonomic reclassification.

## Diagnostic Sensitivity

True Positives	36
Correct Diagnoses	36
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 HPWMoV. Thirty-six distinct samples of HPWMoV have been experimentally proven to be detected.

### Exclusivity:

#### Cross-reacts With:

None known	
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#### Does Not Cross-react With:

Johnsongrass mosaic virus (JGMV)	Maize dwarf mosaic virus (MDMV)
Sugarcane mosaic virus (SCMV)	Wheat streak mosaic virus (WSMV)

## Diagnostic Specificity

True Negatives	50
Correct Diagnoses	50
Percent	100%

### Selectivity:

#### No Matrix Effect Observed With:

Barley leaf	Corn leaf	Corn seed	Wheat leaf
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