

Validation Report: ELISA

SRA 89501 • *Cymbidium mosaic virus* (CymMV)



Test Characteristics

Test Name	Cymbidium mosaic virus	Capture Antibody	Polyclonal (Goat)
Catalog Number	89501	Detection Antibody	Monoclonal (Mouse)
Acronym	CymMV	Format	Compound ELISA
Genus	Potexvirus	Diluents	GEB/ECI
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for detection of Cymbidium mosaic virus (CymMV) in orchid leaves. This ELISA test can detect CymMV in both symptomatic and asymptomatic plants. CymMV is a member of the Potexvirus genus known for their non-enveloped, flexuous, filamentous-shaped virus particles.

Diagnostic Sensitivity

True Positives	19
Correct Diagnoses	19
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:5,400 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

CymMV ATCC® PV-82™ (MD, USA)	CymMV ATCC® PV-317™ (FL, USA)
CymMV Japan isolate	CymMV-K (South Korea)
CymMV-Ph (South Korea)	CymMV PV-0334
CymMV South Korea isolate	

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Cucumber mosaic virus (CMV)	Cymbidium ringspot virus (CymRSV)
Hosta virus X (HVX)	Impatiens necrotic spot virus (INSV)
Odontoglossum ringspot virus (ORSV)	Papaya mosaic virus (PapMV)
Potato virus X (PVX)	Potyvirus group (Poty)
Tobacco mosaic virus (TMV)	Tomato ringspot virus (ToRSV)
Tomato spotted wilt virus (TSWV)	



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Diagnostic Specificity

True Negatives 21
Correct Diagnoses 21
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Cymbidium leaves	Epidendrum leaves	Orchid leaves	Phalaenopsis leaves



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