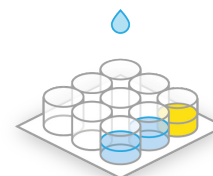


Validation Report: ELISA

PSA/SRA 22001 • *Tomato ringspot virus (ToRSV)*



Test Characteristics

Test Name	Tomato ringspot virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	22001	Detection Antibody	Monoclonal (Mouse)
Acronym	ToRSV	Format	DAS-ELISA
Genus	Nepovirus	Diluents	GEB3/RUB6
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Tomato ringspot virus (ToRSV) in ornamental and vegetable leaves. ToRSV is a member of the Nepovirus genus known for their transmission by nematodes.

Diagnostic Sensitivity

True Positives	44
Correct Diagnoses	44
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:10,800 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

ToRSV-Ch (Chickadee)	ToRSV PV-0049 (Geranium) (Denmark)
ToRSV PV-0380 (Apple) (PA, USA)	ToRSV PV-0381 (Grape) (NY, USA)
ToRSV-PYBMV (Peach)	

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-reacts With:

Alfalfa mosaic virus (AMV)	Angelonia flower break virus (AnFBV)
Apple mosaic virus (ApMV)	Arabis mosaic virus (ArMV)
Bean pod mottle virus (BPMV)	Broad bean wilt virus (BBWV)
Calibrachoa mottle virus (CbMV)	Carnation mottle virus (CarMV)
Carnation necrotic fleck virus (CNFV)	Carnation ringspot virus (CRSV)
Cauliflower mosaic virus (CaMV)	Chrysanthemum virus B (CVB)
Cucumber mosaic virus (CMV)	Grape fan leaf virus (GFLV)
Impatiens necrotic spot virus (INSV)	Nemesia ring necrosis virus (NeRNV)



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Does Not Cross-reacts With:	
Papaya mosaic virus (PapMV)	Papaya ringspot virus (PRSV)
Peach rosette mosaic virus (PRMV)	Pepino mosaic virus (PepMV)
Pepper mild mottle virus (PMMoV)	Pepper mottle virus (PepMoV)
Potato aucuba virus (PAMV)	Potato latent virus (PotLV)
Potato leafroll virus (PLRV)	Potato virus Y-n (PVY-n)
Potyvirus group test (Poty)	Prunus necrotic ringspot virus (PNRSV)
Raspberry ringspot virus (RpRSV)	Ribgrass mosaic virus (RMV)
Southern bean mosaic virus (SBMV)	Soybean dwarf virus (SbDV)
Soybean mosaic virus (SMV)	Squash mosaic virus (SqMV)
Strawberry latent virus (SLRV)	Tobacco etch virus (TEV)
Tobacco mosaic virus (TMV)	Tobacco ringspot virus (TRSV)
Tobacco streak virus (TSV)	Tomato aspermy virus (TAV)
Tomato bushy stunt virus (TBSV)	Tomato mosaic virus (ToMV)
Tomato spotted wilt virus (TSWV)	Watermelon mosaic virus (WMV)
Zucchini yellow mosaic virus (ZYMV)	

Diagnostic Specificity

True Negatives 129
Correct Diagnoses 129
Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Agastache leaves	Ageratum leaves	Ajuga leaves	Alstroemeria leaves
Angelonia leaves	Argyranthemum leaves	Aster leaves	Astilbe leaves
Bean leaves	Begonia leaves	Berberis leaves	Bidens leaves
Blueberry leaves	Calibrachoa leaves	Canna leaves	Caryopteris leaves
Ceratostigma leaves	Chrysanthemum leaves	Chrysocephalum leaves	Cleome leaves
Coleus leaves	Cucumber leaves	Cuphea leaves	Cymbidium leaves
Dahlia leaves	Diascia leaves	Echinacea leaves	Erysimum leaves
Euphorbia leaves	Fuchsia leaves	Gaura leaves	Geranium leaves
Grape leaves	Helenium leaves	Helichrysum leaves	Heliotropium leaves
Heuchera leaves	Hibiscus leaves	Hosta leaves	Hydrangea leaves
Impatiens leaves	Ipomoea leaves	Iresine leaves	Lakium leaves
Lamium leaves	Lantana leaves	Licorice leaves	Lobelia leaves
Lobelia leaves	Lycesteria leaves	Lysimachia leaves	Mercadonia leaves
Muehlenbeckia leaves	Nemesia leaves	Nicotiana benthamiana leaves	Oenothera leaves
Oregano leaves	Osteo leaves	Osteospermum leaves	Passion flower leaves
Peach leaves	Penstemon leaves	Pepper leaves	Perilla leaves
Petunia leaves	Phlox leaves	Rose leaves	Soybean leaves
Strawberry leaves	Tobacco leaves	Tomato leaves	



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