

# Validation Report: ELISA

PSA/SRA 64001 • Tobacco ringspot virus (TRSV)



## Test Characteristics

Test Name	Tobacco ringspot virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	64001	Detection Antibody	Polyclonal (Rabbit)
Acronym	TRSV	Format	DAS-ELISA
Genus	Nepovirus	Diluents	GEB/ECI
		Sample Dilution	1:10

## Summary

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

## Diagnostic Sensitivity

True Positives	19
Correct Diagnoses	19
Percent	100%

## Analytical Sensitivity

Limit of Detection: 1:194,400 dilution of infected tissue (pathogen titer unknown)

## Analytical Specificity

### Inclusivity:

#### Isolates and Geographic Regions Detected:

TRSV PV-48 (Eucharis mottle) (Peru)	TRSV PV-97 (Steere's isolate)
TRSV PV-98 (WS-1) (Maryland)	TRSV PV-125 (Watermelon)
TRSV PV-157 (Riesling Grape) (New York)	TRSV PV-172 (Rubus) (North Carolina)
TRSV Potato calico isolate	

### Exclusivity:

#### Cross-reacts With:

Potato black ringspot virus (PBRV)	
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#### Does Not Cross-react With:

Arabis mosaic virus (ArMV)	Cherry leaf roll virus (CLRV)
Grapevine fanleaf virus (GFLV)	Peach rosette mosaic virus (PRMV)
Raspberry ringspot virus (RpRSV)	Tomato ringspot virus (ToRSV)



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p129.1  
Revised: 02/04/2021  
Page 1 of 2

## Diagnostic Specificity

True Negatives 395  
Correct Diagnoses 395  
Percent 100%

### Selectivity:

No Matrix Effect Observed With:			
Acalypha leaves	Agastache leaves	Ageratum leaves	Alstroemeria leaves
Angelonia leaves	Apios americana leaves	Argyranthemum leaves	Artemisia dracunculus leaves
Aubrieta leaves	Bacopa leaves	Basil leaves	Bean leaves
Bidens leaves	Blueberry leaves	Cabbage leaves	Calibrachoa leaves
Campanula leaves	Caryopteris leaves	Chrysocephalum leaves	Clematis leaves
Coleus leaves	Coreopsis auriculata leaves	Cucurbit leaves	Cucumber leaves
Dahlia leaves	Dianthus leaves	Echinacea leaves	Eggplant leaves
Endivine leaves	Erysimum leaves	Euphorbia leaves	Fuchsia leaves
Gaillardia leaves	Geranium leaves	Helenium leaves	Helichrysum angustifolia leaves
Heliotrope leaves	Herb leaves	Heuchera leaves	Hibiscus leaves
Hosta leaves	Iberis leaves	Impatiens leaves	lochroma leaves
Jamesbrittenia leaves	Lantana leaves	Lavandula leaves	Leucanthemum leaves
Ligularia leaves	Lily leaves	Lobelia leaves	Lobularia leaves
Lychnis leaves	Mandevilla leaves	Marjoram leaves	Mentha leaves
Mercardonia leaves	Nandina leaves	Nemesia leaves	Nepeta leaves
New Guinea Impatiens leaves	Ocimum basilicum leaves	Origanum leaves	Osteospermum leaves
Papaya leaves	Pepper leaves	Petunia leaves	Phaseolus vulgaris leaves
Phlox leaves	Portulaca leaves	Pumpkin leaves	Romaine lettuce leaves
Rose leaves	Rosemary leaves	Rosmarinus leaves	Sagina leaves
Salvia leaves	Scabiosa leaves	Sedum leaves	Snake Gourd leaves
Solenostemon leaves	Solidago SP leaves	Soybean leaves	Spinach leaves
Squash leaves	Stevia Rebaudiana leaves	Stokesia leaves	Strawberry leaves
Strawflower leaves	Streptocarpilla leaves	Tarragon leaves	Thyme leaves
Tobacco leaves	Tomato leaves	Torenia leaves	Tradescantia leaves
Trifolium leaves	Verbena leaves	Veronica leaves	Vinca minor leaves
Viola leaves	Watermelon fruit	Watermelon leaves	



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Page 2 of 2