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#### **Test Characteristics**

Test NameTobacco ringspot virusCapture AntibodyPolyclonal (Rabbit)Catalog Number64001Detection AntibodyPolyclonal (Rabbit)

Acronym TRSV Format Lateral Flow Device

GenusNepovirusDiluentsSEB1Sample Dilution1:20

## Summary

The Tobacco ringspot virus (TRSV) ImmunoStrip is used to detect the presence of TRSV in a wide range of ornamental, fruit, vegetable and field crops. TRSV is a member of the Nepovirus genus known for their transmission by nematodes. According to the European and Mediterranean Plant Protection Organization (EPPO) (Bulletin) TRSV can be transmitted mechanically and vectored by at least one nematode species and a variety of insects. In addition it can be transmitted by seed in several plant species. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

### **Diagnostic Sensitivity**

### **Analytical Sensitivity**

True Positives 15 Limit of Detection: 1:2,187 dilution of infected tissue (pathogen titer unknown)

Correct Diagnoses 15

Percent 100%

## **Analytical Specificity**

#### Inclusivity:

This assay was designed to detect all strains and isolates of TRSV. Fifteen distinct samples of TRSV have been experimentally proven to be detected.

## **Exclusivity:**

## Cross-reacts With:

None known	

#### Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Alternanthera mosaic virus (AltMV)	
Angelonia flower break virus (AnFBV)	Arabis mosaic virus (ArMV)	
Broad bean wilt virus-1 (BBWV-1)	Broad bean wilt virus-2 (BBWV-2)	
Blueberry scorch virus (BIScV)	Blueberry leaf mottle virus (BLMoV)	
Bean pod mottle virus (BPMV)	Cherry leaf roll virus (CLRV)	
Cucumber mosaic virus (CMV)	Chrysanthemum virus B (CVB)	
Grapevine fanleaf virus (GFLV)	Impatiens necrotic spot virus (INSV)	
Melon necrotic spot virus (MNSV)	Nemesia ring necrosis virus (NeRNV)	
Papaya mosaic virus (PapMV)	Peach rosette mosaic virus (PRMV)	
Southern bean mosaic virus (SBMV)	Strawberry latent ringspot virus (SLRSV)	
Tomato aspermy virus (TAV)	Tomato ringspot virus (ToRSV)	

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# **Diagnostic Specificity**

True Negatives 102
Correct Diagnoses 102
Percent 100%

## Selectivity:

No Matrix Effect Observed With:				
Acorus leaves	Almond leaves	Alternanthera leaves	Antirrhinum leaves	
Argyranthemum leaves	Ajuga leaves	Anemone leaves	Angelonia leaves	
Aster leaves	Bacopa/Sutera leaves	Banana pepper leaves	Begonia leaves	
Blackberry leaves	Blueberry leaves	Browalia leaves	Calibrachoa leaves	
Calla lily leaves	Cleome leaves	Celosia leaves	Coleus leaves	
Cleome leaves	Cucumber leaves	Dahlia leaves	Dandelion leaves	
Daylilly leaves	Diascia leaves	Dianthus leaves	Gaillardia leaves	
Geranium/Pelargonium leaves	Grape leaves	Gynura leaves	Helichyrsum leaves	
Holly leaves	Honeydew leaves	Horseradish leaves	Hosta leaves	
Impatiens leaves	Ipomoea leaves	Jalapeño leaves	Lavender leaves	
Lilac leaves	Lobelia leaves	Limonium leaves	Maple leaves	
Melon leaves	Mimulus leaves	Nandina leaves	Nemesia leaves	
Nepeta leaves	Oleander leaves	Olive leaves	Orange leaves	
Osteospermum leaves	Peach leaves	Papaya leaves	Pepper leaves	
Periosteum leaves	Petunia leaves	Phlox leaves	Portulaca/Purslane leaves	
Primrose leaves	Pumpkin leaves	Rose leaves	Rosemary leaves	
Salvia leaves	Scabeosa leaves	Scavleoa leaves	Sedum leaves	
Soybean leaves	Squash leaves	Tobacco leaves	Torenia leaves	
Tomato leaves	Verbascum leaves	Verbena leaves	Veronica leaves	
Watermelon leaves	Zucchini leaves			

# Repeatability

Number of Samples 101
Replicates per Sample 2 - 8
Average Percent Agreement 100%
Between Replicates

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