

# Validation Report: ELISA

SRA 45400 • *Tomato bushy stunt virus* (TBSV)



## Test Characteristics

Test Name	Tomato bushy stunt virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	45400	Detection Antibody	Polyclonal (Rabbit)
Acronym	TBSV	Format	DAS-ELISA
Genus	Tombusvirus	Diluents	GEB/ECI
		Sample Dilution	1:10

## Summary

This ELISA test is a qualitative serological assay for the detection of Tomato bushy stunt virus (TBSV) in tomato and potato leaves. TBSV is a member of the Tombusvirus genus known for their non-enveloped, spherical, icosahedral-shaped virus particles.

## Diagnostic Sensitivity

True Positives	31
Correct Diagnoses	31
Percent	100%

## Analytical Sensitivity

Limit of Detection: 1:1,620 dilution of infected tissue (pathogen titer unknown)

## Analytical Specificity

### Inclusivity:

#### Isolates and Geographic Regions Detected:

TBSV-BS3	TBSV-Cherry
TBSV-L3	TBSV OP477335 (CA, USA) <sup>1</sup>
<sup>1</sup> TBSV OP477335 has been <a href="#">reported</a> to be detected.	

### Exclusivity:

#### Cross-reacts With:

Lettuce necrotic stunt virus (LNSV)	Moroccan pepper virus (MPV)
Pelargonium leaf curl virus (PLCV)	

#### Does Not Cross-react With:

None known	
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**Diagnostic Specificity**

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True Negatives 30  
Correct Diagnoses 30  
Percent 100%

**Selectivity:**

No Matrix Effect Observed With:			
Dianthus leaves	Potato leaves	Tomato leaves	

