



Test Characteristics

Test Name	Tomato brown rugose fruit virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	66800	Detection Antibody	Monoclonal (Mouse)
Acronym	ToBRFV	Format	Lateral Flow Device
Genus	Tobamovirus	Diluents	SEB1
		Sample Dilution	1:20

Summary

The Tomato brown rugose fruit virus (ToBRFV) ImmunoStrip is used to detect the presence of ToBRFV in solanaceous crops. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

Diagnostic Sensitivity

True Positives	24
Correct Diagnoses	24
Percent	100.0%

Analytical Sensitivity

Limit of Detection: 6-32 pg/mL of purified virus

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

ToBRFV PV-1236 (Germany)	ToBRFV PV-1241 (Israel)
ToBRFV PV-1244 (Germany)	ToBRFV PV-1278 (Netherlands)
ToBRFV Italy isolate (1)	ToBRFV Italy isolate (2)
ToBRFV Mexico isolate	

Exclusivity:

Cross-reacts With:

Tobacco mosaic virus (TMV) ¹	Tomato mosaic virus (ToMV) ¹
Tomato mottle mosaic virus (ToMMV)	
¹ Mild cross-reactivity observed.	

Does Not Cross-react With:

Bell Pepper Mottle Virus (BPeMV)	Cucumber green mottle mosaic virus (CGMMV)
Kyuri green mottle mosaic virus (KGMMV)	Pepper mild mottle virus (PMMoV)
Piper chlorosis virus (PChV) ^{1,2}	Tobacco mild green mosaic virus (TMGMV)
Zucchini Green Mottle Mosaic Virus (ZGMMV)	

¹Confirmed experimentally at Agdia, Inc.

²Reported to not detect Piper chlorosis virus (PChV), a possible novel Tobamovirus.

Diagnostic Specificity

True Negatives 36
Correct Diagnoses 36
Percent 100.0%

Selectivity:

No Matrix Effect Observed With:			
Pepper leaves	Petunia leaves	Tobacco leaves	Tomato leaves

Repeatability

Number of Samples 32
Replicates per Sample 3
Average Percent Agreement 100.0%
Between Replicates

Reproducibility

Number of Samples 32
Replicates per Sample 3
Number of Operators 4
Average Percent Agreement Between 100.0%
Replicates Between Operators

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