Validation report

AgriStrip ToBRFV

Article No.: 152881NF (ToBRFV AgriStrip casette Kit)

General information:

Target Pathogen	ToBRFV (Tomato brown rugose fruit virus / *Tobamovirus fructirugosum*)
Genus	*Tobamovirus*
Method	Lateral flow device

Technical information:

Antibodies	Polyclonal antibodies developed against a ToBRFV isolate from tomato (origin: Germany)
Sampling	Suspicious leaves and fruit samples: 0.1 g – 0.2 g
Sample dilution	1:40 – 1:80 (w/v) in AgriStrip Extraction Buffer "A"

Host matrix:

Tested plant material	Leaves, fruits
Tested species infected	*Solanum lycopersicum* (Tomato)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organisms (True Positives)	54
Diagnostic Specificity	96.2%
Number of tested samples non-target organism (True Negatives)	51
Detected isolates / geographic regions (Inclusivity)	ToBRFV PV-1236 (Germany, Tomato) ToBRFV PV-1244 (Germany, Tomato) ToBRFV PV-1241 (Israel, Tomato) ToBRFV PV-1278 (Netherlands, Tomato) ToBRFV INF.110721-A (Israel, Tomato) ToBRFV INF.110721-B (Israel, Tomato) ToBRFV INF.110721-C (Israel, Tomato) ToBRFV INF.110721-D (Israel, Tomato) ToBRFV INF.110721-E (Israel, Tomato) ToBRFV INF.110721-F (Israel, Tomato) ToBRFV 210223 (Italy, Tomato)
Cross reaction with (Exclusivity)	Weak cross-reactivity was observed with: TMV (Tobacco mosaic virus) ToMV (Tomato mottle virus)
No cross reaction tested with (Exclusivity)	CGMMV (Cucumber green mottle mosaic virus) CMV (Cucumber mosaic virus) INSV (Impatiens necrotic spot virus) PepMV (Pepino mosaic virus) PMMoV (Pepper mild mottle virus) TBRV (Tomato black ring virus) TBSV (Tomato bushy stunt virus) TNV (Tobacco necrosis virus)

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	ToANV (Tomato apex necrosis virus) ToRSV (Tomato ringspot virus) TSV (Tobacco streak virus) TSWV (Tomato spotted wilt virus) TYLCV (Tomato yellow leaf curl virus)
No matrix effect observed with (Selectivity)	*Solanum lycopersicum* (Tomato) – leaf and fruit *Capsicum annum* (Chili/Pepper) – leaf *Solanum muricatum* (Pepino) – leaf Nicotiana spp. (Tobacco) – leaf Chenopodium quinoa (Quinoa) - leaf

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10^{-3} dilution of infected tissue (pathogen titer unknown)
Sensitivity on host matrix	ToBRFV on tomato leaves: 1:1'280 dilution ToBRFV on tomato fruit: 1:2'580 dilution
Other sensitivity characteristics	-

Validation:

Internal validation	2026
External validation	-
Reproducibility	100% (BIOREBA)
Repeatability	100% (BIOREBA)
Validation information	The internal validation was done with the internal collection of BIOREBA strains and species.

Validation release Date:
October 27th, 2026

QC manager:



Version: 1 – 27.10.2026

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