

Validation Report: ELISA

SRA 36600 • *Angelonia flower break virus* (AnFBV)



Test Characteristics

Test Name	Angelonia flower break virus	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	36600	Detection Antibody	Polyclonal (Rabbit)
Acronym	AnFBV	Format	DAS-ELISA
Genus	Carmovirus	Diluents	GEB/RUB6
		Sample Dilution	1:10

Summary

This ELISA test is a qualitative serological assay for the detection of Angelonia flower break virus (AnFBV) in ornamental leaves. AnFBV is a member of the Alphacarmovirus genus known for their non-enveloped, spherical, icosahedral-shaped virus particles.

Diagnostic Sensitivity

True Positives	20
Correct Diagnoses	20
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:8,100 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

AnFBV Germany isolate	AnFBV Israel isolate
AnFBV USA isolate	

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Alfalfa mosaic virus (AMV)	Arabis mosaic virus (ArMV)
Bean common mosaic virus (BCMV)	Bean pod mottle virus (BPMV)
Broad bean wilt virus 1 and 2 (BBWV-1,2)	Calibrachoa mottle virus (CbMV)
Carnation mottle virus (CarMV)	Cucumber mosaic virus (CMV)
Cucumber mosaic virus I (CMV I)	Cucumber mosaic virus II (CMV II)
Chrysanthemum virus B (CVB)	Hibiscus chlorotic ringspot virus (HCRSV)
Impatiens necrotic spot virus (INSV)	Lettuce mosaic virus (LMV)
Melon necrotic spot virus (MNSV)	Nemesia ringspot virus (NeRSV)
Pelargonium flower break virus (PFBV)	Prunus necrotic ringspot virus (PNRSV)



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Does Not Cross-react With:

Potyvirus group (Poty)	Peanut stunt virus (PSV)
Potato virus Y (PVY)	Ribgrass mosaic virus (RMV)
Tobacco mosaic virus (TMV)	Tobacco mosaic virus, common strain (TMV-c)
Tobacco rattle virus (TRV)	Tobacco ringspot virus (TRSV)
Tobacco streak virus (TSV)	Tomato aspermy virus (TAV)
Tomato mosaic virus (ToMV)	Tomato ringspot virus (ToRSV)
Tomato spotted wilt virus (TSWV)	

Diagnostic Specificity

True Negatives 1,714
Correct Diagnoses 1,707
Percent 99.6%

Selectivity:**No Matrix Effect Observed With:**

Acalypha leaves	Agashache leaves	Ageratum leaves	Ajuga leaves ¹
Alternanthera leaves	Anagallis leaves	Angelonia leaves	Antirrhinum leaves
Argyranthemum leaves	Artemisia leaves	Aster leaves	Bacopa leaves
Begonia leaves	Bergenia leaves	Bidens leaves	Brachycome leaves
Bracteantha leaves	Brilliantasia leaves	Bracteantha leaves	Browallia leaves
Brugmansia leaves	Brunfelsia leaves	Calibrachoa leaves	Campanula leaves
Caryopteris leaves	Chrysanthemum leaves	Cleome leaves	Coleus leaves ²
Colocasia leaves	Cosmos leaves	Crhysocephal leaves	Cuphea leaves
Dahlia leaves	Dianthus leaves ³	Diascia leaves	Ensete leaves
Euphorbia leaves	Euryops leaves	Felecia leaves	Fern leaves
Fuchsia leaves	Gaillardia leaves	Gaura leaves	Gazania leaves
Geranium leaves	Grebera leaves	Gypsopholia leaves	Hedra Helix leaves
Heliopsis leaves	Heliotropium leaves	Helychrysum leaves	Hernaria leaves
Heuchera leaves	Heucherella leaves	Hibiscus leaves	Impatiens leaves
Ipomoea leaves	Lamium leaves	Lantana leaves	Laurus leaves
Lavanda Stoecha leaves	Lavander leaves	Leucanthemum leaves	Lobelia leaves
Lysimachia leaves	Mercardonina leaves	Million Bells leaves	Musa leaves
Myositis leaves	Nemesia leaves	New Guinea leaves	Nolana leaves
Oenothera leaves	Osteospermum leaves	Otacantus leaves	Oxalis leaves
Pavonia leaves	Pennisetum leaves	Penstemon leaves	Pentas leaves
Pericaria leaves	Perilla leaves	Perostrophe leaves	Petunia leaves
Phlox leaves	Plectranthus leaves	Portulaca leaves	Primula leaves
Pseuderanthemum leaves	Pulmonaria leaves	Purslane leaves	Quadrifolium leaves
Rosa leaves	Rosemary leaves	Rudbeckia leaves	Ruttya leaves
Sagina leaves	Salvia leaves ⁴	Sanchesia leaves	Santolina leaves
Sanvitalia leaves	Satureja leaves	Scabiosa leaves	Scaevola leaves



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Scoparia leaves	Sedum leaves	Senetti leaves	Sphaeralcea leaves
Spike leaves	Stachys leaves	Streptocapella leaves	Strobilanthes leaves
Superbells leaves	Supermint leaves	Supertunia leaves	Surfinia leaves
Sutera leaves	Thymus leaves	Tiarella leaves	Torenia leaves ⁵
Tradescantia leaves	Tricyrtis leaves	Trifolium leaves	Turnera leaves
Verbascum leaves	Verbena leaves	Vinca leaves	Woegelia leaves
¹ False positive observed in 1 out of 3 samples of Ajuga.			
² False positive observed in 5 out of 80 samples of Coleus.			
³ False positive observed in 1 out of 3 samples of Dianthus.			
⁴ False positive observed in 1 out of 17 samples of Salvia.			
⁵ False positive observed in 2 out of 28 samples of Torenia.			



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