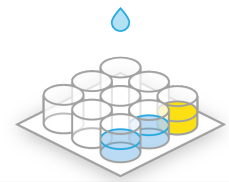


# Validation Report: ELISA

SRA 46202 • Broad bean wilt virus 1 and 2 (BBWV-1,2)



## Test Characteristics

Test Name	Broad bean wilt virus 1 and 2	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	46202	Detection Antibody	Polyclonal (Rabbit)
Acronym	BBWV-1,2	Format	DAS-ELISA
Genus	Fabavirus	Diluents	GEB3/ECI
		Sample Dilution	1:10

## Summary

This ELISA test is a qualitative serological assay for the detection of Broad bean wilt virus 1 and 2 (BBWV-1,2) in ornamental leaves. BBWV-1,2 is a member of the Fabavirus genus known for their non-enveloped, icosahedral-shaped virus particles.

## Diagnostic Sensitivity

True Positives	29
Correct Diagnoses	29
Percent	100%

## Analytical Sensitivity

Limit of Detection: 1:51,200 dilution of infected tissue (pathogen titer unknown)

## Analytical Specificity

### Inclusivity:

#### Isolates and Geographic Regions Detected:

BBWV-1,2 ATCC® PV-131™	BBWV-1,2 ATCC® PV-132™
BBWV-1,2-Benthamiana	BBWV-1,2-IFA 62
BBWV-1,2-IFA 168	BBWV-1,2-JV (Germany)
BBWV-1,2-K407b (Germany)	BBWV-1,2-K442a (Germany)
BBWV-1,2-K497 (Germany)	BBWV-1,2-K1926 (Germany)
BBWV-1,2-K1927 (Germany)	BBWV-1,2-K2194 (Germany)
BBWV-1,2-K2505 (Germany)	BBWV-1,2-K2588 (Germany)
BBWV-1,2-K2983 (Germany)	BBWV-1,2-Lynchnis
BBWV-1,2-PV-0221 (Italy)	BBWV-1,2-PV-0537
BBWV-1,2-PV-0548 (Syria)	BBWV-1,2-PV-0549 (Germany)
BBWV-1,2-PV-0550 (Germany)	BBWV-1,2-PV-0862 (Germany)
BBWV-1,2-PV-0881 (Austria)	

### Exclusivity:

#### Cross-reacts With:

None known



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**Does Not Cross-react With:**

Angelonia flower break virus (AnFBV)	Apple mosaic virus (ApMV)
Arabis mosaic virus (ArMV)	Bean pod mottle virus (BPMV)
Beet western yellows virus (BWYV)	Carnation mottle virus (CarMV)
Carnation necrotic fleck virus (CNFV)	Calibrachoa mottle virus (CbMV)
Cucumber mosaic virus (CMV)	Chrysanthemum virus B (CVB)
Cymbidium mosaic virus (CymMV)	Cymbidium ringspot virus (CymRSV)
Dahlia mosaic virus (DMV)	Dasheen mosaic virus (DsMV)
Hisbiscus chlorotic ringspot virus (HCRSV)	Hosta virus X (HVX)
Impatiens necrotic spot virus (INSV)	Kalanchoe latent virus (KLV)
Lamium mild mosaic virus (LMMV)	Lettuce mosaic virus (LMV)
Nemesia ring necrosis virus (NeRNV)	Odontoglossum ringspot virus (ORSV)
Papaya mosaic virus (PapMV)	Pepper mild mottle virus (PMMoV)
Pepper mottle virus (PepMoV)	Pepino mosaic virus (PepMV)
Pelargonium flower break virus (PFBV)	Potato leafroll virus (PLRV)
Potato virus Y (PVY)	Prunus necrotic ringspot virus (PNRSV)
Poinsettia mosaic virus (PnMV)	Potyvirus Group (Poty)
Ribgrass mosaic virus (RMV)	Scrophularia mottle virus (ScrMV)
Tomato aspermy virus (TAV)	Tobacco etch virus (TEV)
Tobacco mosaic virus (TMV)	Tobacco mosaic virus, common strain (TMV-c)
Tomato mosaic virus (ToMV)	Tomato ringspot virus (ToRSV)
Tobacco rattle virus (TRV)	Tobacco ringspot virus (TRSV)
Tobacco streak virus (TSV)	Tomato spotted wilt virus (TSWV)

**Diagnostic Specificity**

True Negatives 1,131  
Correct Diagnoses 1,128  
Percent 99.73%

**Selectivity:**

No Matrix Effect Observed With:			
Abutilon leaves	Acalypha leaves	Achillea leaves	Aethiopia spring carla leaves
Agastache leaves	Agerantum leaves	Angyranthemum leaves	Alternanthera leaves
Anagalis leaves	Angelonia leaves	Anisodonteia leaves	Arctotis leaves
Artemesia leaves	Aster leaves	Asteriscus leaves	Bacopa leaves
Begonia leaves	Bellis leaves	Bidens leaves	Bouvardia leaves
Brachycome leaves	Bracteantha leaves	Calathea leaves	Calibrachoa leaves
Calocephalus leaves	Calylophus leaves	Caryopteris leaves	Celosia leaves
Ceratostigma leaves	Cestrum leaves	Chelome leaves	Chrysocephalum leaves
Cineria leaves	Cleome leaves	Coleus leaves	Colocasia leaves
Convolvulus leaves	Coprosoma leaves	Cuphea leaves	Dahlia leaves
Dianthus leaves	Didelta leaves	Didena leaves	Diascia leaves



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Dracaena leaves	Duranta leaves	Echinacea leaves	Escallonia leaves
Eranthemum leaves	Erysimum leaves	Eupatorium leaves	Euphorbia leaves
Euryops leaves	Evovulus leaves	Felicia leaves	Fuchsia leaves
Gaillardia leaves	Guara leaves	Gazania leaves	Glechoma leaves
Goji leaves	Goodenia leaves	Gypsophilia leaves	Haloragis leaves
Hedera leaves	Hesperozygis leaves	Heliopsis leaves	Heliotropium leaves <sup>1</sup>
Heuchera leaves	Helychrisium leaves	Hibiscus leaves	Hydrangea leaves
Impatiens leaves	Ichroma leaves	Ipomoea leaves	Iris leaves
Irisine leaves	Jasminium leaves	Kalanchoe leaves	Lamiastrum leaves
Lamium leaves	Lantana leaves	Laurentia leaves	Lavandula leaves
Lavender leaves	Leptinella leaves	Leucanthemum leaves	Liriope leaves
Lobelia leaves	Lysimachia leaves	Mandevilla leaves	Mazus tissue culture
Mercadonia leaves	Meuhlenbeckia leaves	Mimulus leaves	Mint leaves
Monopsis leaves	Myosotis leaves	Nemesia leaves	Nepeta leaves
Nierembergia leaves	New Guinea Impatiens leaves	Nolana leaves	Ocimum leaves
Oenothera leaves	Orcetchys leaves	Orostachys leaves	Osteospermum leaves
Otocanthus leaves	Oxalis leaves	Ozothamnus leaves	Pelargonium leaves
Pennisetum leaves	Pentas leaves	Perilla leaves	Peristrophe leaves
Petunia leaves	Phlox leaves	Phygelius leaves	Pictranthus leaves
Plectranthus leaves	Portulaca leaves	Pulmoneria leaves	Ranunculus leaves
Raoulia leaves	Rhodanthemum leaves	Rosa leaves	Russelia leaves
Ruttya frutiosa leaves	Sagina leaves	Salvia leaves <sup>2</sup>	Sanchezia leaves
Santolina leaves	Satureja leaves	Sanvitalia leaves	Scabiosa leaves
Scaevola leaves	Schefflera leaves	Scutellaria leaves	Scoparia leaves
Sedum leaves	Senetti leaves	Snapdragon leaves	Solenisotigma leaves
Solenostemom leaves	Soloirolia leaves	Spath tissue culture	Sphaerealcea leaves
Stachys leaves	Strawflower leaves	Streptocarpus leaves	Strobilanthes leaves
Sutera leaves	Torenia leaves	Tradescantia leaves	Thymus leaves
Tiarella leaves	Tropaeolum leaves	Tricytis leaves	Trifolium leaves
Turnera leaves	Verbena leaves	Veronica leaves	Vinca leaves
Viola leaves			

<sup>1</sup> False positive observed in 2 out of 9 samples of Heliotropium.

<sup>2</sup> False positive observed in 1 out of 15 sampels of Salvia.

