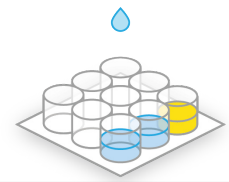


Validation Report: ELISA

PSA/SRA 46400 • *Bean pod mottle virus* (BPMV)



Test Characteristics

| | | | |
|----------------|-----------------------|--------------------|---------------------|
| Test Name | Bean pod mottle virus | Capture Antibody | Polyclonal (Rabbit) |
| Catalog Number | 46400 | Detection Antibody | Polyclonal (Rabbit) |
| Acronym | BPMV | Format | DAS-ELISA |
| Genus | Comovirus | Diluents | GEB/ECI |
| | | Sample Dilution | 1:10 |

Summary

This ELISA test is a qualitative serological assay for the detection of Bean pod mottle virus (BPMV) in bean leaves, soybean leaves and seeds, and beetles. BPMV is a member of the Comovirus genus known for their non-enveloped, icosahedral-shaped virus particles.

Diagnostic Sensitivity

| | |
|-------------------|------|
| True Positives | 38 |
| Correct Diagnoses | 38 |
| Percent | 100% |

Analytical Sensitivity

Limit of Detection: 1:194,400 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of BPMV. Thirty-eight distinct samples of BPMV have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

| |
|------------|
| None known |
|------------|

Does Not Cross-react With:

| |
|----------------------------|
| Cowpea mosaic virus (CPMV) |
|----------------------------|

| |
|----------------------------|
| Soybean mosaic virus (SMV) |
|----------------------------|

Diagnostic Specificity

| | |
|-------------------|------|
| True Negatives | 31 |
| Correct Diagnoses | 31 |
| Percent | 100% |

Selectivity:

No Matrix Effect Observed With:

| | | | |
|-------------|---------|----------------|---------------|
| Bean leaves | Beetles | Soybean leaves | Soybean seeds |
|-------------|---------|----------------|---------------|



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