Validation Report: ELISA

SRA 16301 • Beet necrotic yellow vein virus (BNYVV)



Test Characteristics

Test NameBeet necrotic yellow vein virusCapture AntibodyPolyclonal (Rabbit)Catalog Number16301Detection AntibodyMonoclonal (Mouse)

Acronym BNYVV Format Compound-ELISA

Sample Dilution 1:10

Diluents GEB/ECI

Summary

This ELISA test is a qualitative serological assay for the detection of Beet necrotic yellow vein virus (BNYVV), the casual agent of rhizomania, in beet, potato, spinach, and tobacco leaves, roots, and stems. BNYVV is a member of the Benyvirus genus known for their non-enveloped, rod shaped virus particles.

Diagnostic Sensitivity

Analytical Sensitivity

True Positives 19 Limit of Detection: 1:48,600 dilution of infected tissue (pathogen titer unknown)

Correct Diagnoses 19

Percent 100%

Genus Benyvirus

Analytical Specificity

Inclusivity:

This assay was designed to detect all strains and isolates of BNYVV. Nineteen distinct samples of BNYVV have been experimentally proven to be detected.

Exclusivity:

Cross-reacts With:

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

Does Not Cross-react With:

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

Diagnostic Specificity

True Negatives 18
Correct Diagnoses 18

Percent 100%

Selectivity:

| No Matrix Effect Observed With: | | | | | |
|---------------------------------|----------------|----------------|---------------|--|--|
| Beet leaves | Beet roots | Beet stems | Potato leaves | | |
| Potato roots | Potato stems | Spinach leaves | Spinach roots | | |
| Spinach stems | Tobacco leaves | Tobacco roots | Tobacco stems | | |



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