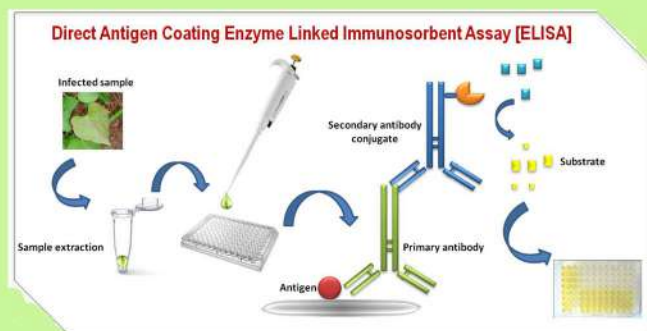




Sweet potato feathery mottle virus Diagnostic Kit



DAC - ELISA KIT

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DESCRIPTION

The *Sweet potato feathery mottle virus* (SPFMV) is one of the most widely spread sweet potato viruses in the world. The ICAR - CTCRI-developed Direct Antigen Coating Enzyme Linked Immuno Sorbent Assay [DAC - ELISA] kit detects SPFMV with high sensitivity. The interaction between the viral antigen and the particular polyclonal antibodies produced against the viral antigen is the basis for the DAC-ELISA kit. Yellow coloration indicates the presence of the viral antigen in the test samples. The lack of viral antigen in the test sample is shown by no color change. By using field samples, the kit has been standardized.

ADVANTAGES

Simple procedure
High sensitivity
High efficiency
Safe and eco-friendly
Cost-effective assay

KIT COMPONENTS

ELISA plate
Extraction buffer
Blocking solution
Wash buffer
Primary antibody
Secondary Antibody
Substrate
Substrate buffer
User Manual

ASSAY PROCEDURE (Refer user manual)

Extract samples in extraction buffer (provided)
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To ELISA plate add 200 µl aliquots of control and test samples, incubate at 37°C for 3 hours
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Discard the solution and wash plate 3 times with Wash buffer (provided)
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Add 200 µl of blocking solution, incubate at 37°C for 30 min
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Discard the solution, wash 3 times, add 200 µl of primary antibody to each well
Incubate overnight at 4°C
↓
Discard the solution, wash 3 times, add 200 µl of secondary antibody, incubate for 2 hours at 37°C
↓
Discard solution, wash 3 times, add 200 µl of freshly prepared substrate to each well
↓
Incubate for 30 min at room temperature in dark
↓
Assess results by visual inspection or by taking Spectrophotometric reading

RESULT INTERPRETATION

Positive result: A color change to yellow indicates that the test samples possess the viral antigen.

Negative result: No color change indicates the absence of viral antigen in test sample.

Result also interpreted based on spectrophotometric reading (refer user manual)