Turnip Yellows Virus (TuYV) Negative Control (10)

Cat. No. *CPD-517*

Lot. No. (See product label)

Product Name

Turnip Yellows Virus (TuYV) Negative Control (10)

Product Overview

Turnip Yellows Virus (TuYV) Negative Control (10) is designed for the detection of Turnip Yellows Virus (TuYV).

Scientific Background

During the first step of the assay the surface of a microtiter plate is coated with the antigen-specific coating-antibody (IgG). When an antigen-containing sample is added during the second step, the antigen binds to the immobilized IgG, forming an antibody-antigen complex. This complex reacts with the enzyme-labelled antibody-AP-conjugate during the third step by forming a double-antibody sandwich. During the fourth step the alkaline phosphatase (AP) reacts with the substrate 4-nitrophenylphosphate in an enzymatic reaction, resulting in yellow coloured 4-nitrophenol as product. This colour development can be evaluated visually or measured in a spectrophotometer at 405 nm after 1 and 2 hours.

Detection method

DAS ELISA

Preparation

Add positive and negative controls to the plate. To determine potential background of healthy plants, fresh non-infected extracts of the tested species, should be added to the plate. The positive/negative threshold needs to be determined by the user, as it depends on many factors, such as plant species and its physiological conditions

Assay Protocol

Application of coating-antibody (IgG): Dilute IgG 1:200 from original vial in Coating Buffer;
Sample application: Prepare samples at a 1:20 dilution in Sample Buffer, if not stated otherwise in the product certificate; Application of antibody-AP-conjugate: Dilute AP-conjugate 1:200 from original vial in Conjugate Buffer; Enzymatic assay: Dilute Substrate Solution.

Sample Type

Brassicaceae and other arable crops, oil seed rape

Storage

Our DAS-ELISA reagents are standardized for use at a dilution of 1:200 and a test volume of 200 µl/well. The products must be kept refrigerated (ca. 4°C) upon receipt. Once opened, we recommend using the reagents within 14 months.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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