Tobacco Rattle Virus K (TRV K) Negative Control (10)

Cat. No. *CPD-491*

Lot. No. (See product label)

Product Name

Tobacco Rattle Virus K (TRV K) Negative Control (10)

Product Overview

Tobacco Rattle Virus K (TRV K) Negative Control (10) is designed for the detection of Tobacco Rattle Virus K (TRV K).

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

Tobacco

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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