# Tomato Aspermy Virus (TAV) Negative Control (10)

*Cat. No.* *CPD-497*

*Lot. No.* (See product label)

## Product Name

Tomato Aspermy Virus (TAV) Negative Control (10)

## Product Overview

Tomato Aspermy Virus (TAV) Negative Control (10) is designed for the detection of Tomato Aspermy Virus (TAV).

## 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

Chrysanthemum, Tomato

### 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

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-356-5138 Fax: 1-631-910-2166
E-mail: info@lifeasible.com
https://www.lifeasible.com