

ELISA Products

In plant disease diagnostics ELISA (Enzyme-linked Immunosorbent Assay) is the most common test method for the detection of plant pathogens, like viruses and bacteria. LOEWE® offers a range of more than 150 high quality ELISA products for specific and sensitive detection of plant diseases. ELISA reagents can be supplied as ELISA sets or convenient complete kits. All necessary reagents, buffers and plates are also available separately.

NEW 2014:

For a wide range of ELISA reagents we are now offering sizes of 300, 1000 and 5000 tests!

ELISA Sets

contain IgG and AP-Conjugate and are supplied as 100, 300, 500, and for many pathogens as 1000 and 5000 test units. Our ELISA sets are optimized for a test volume of 200 µl per well, ensuring highest accuracy, repeatability and sensitivity.

Volumes provided:

100 tests	300 tests	500 tests	1000 tests	5000 tests
120 µl	3 x 120µl	520 µl	1020 µl	5x1020µl

ELISA Complete Kits

available for 96, 480, and 960 tests. The kits contain all ELISA reagents, controls, buffers and ELISA plates or modules to perform the ELISA assay:

Components	96 test format	480 test format	960 test format
Antibody	0.1 ml	0.5 ml	1.0 ml
Antibody-AP-conjugate	0.1 ml	0.5 ml	1.0 ml
Positive Control	10 tests	10 tests	20 tests
Negative Control	10 tests	10 tests	20 tests
Coating Buffer	1 liter	1 liter	1 liter
Wash Buffer	1 x 5 liter	1 x 5 liter	2 x 5 liter
Conjugate/Sample Buffer	1 x 1 liter	2 x 1 liter	4 x 1 liter
Substrate Buffer (5x)	1 x 25 ml	1 x 25 ml	2 x 25 ml
Tween 20	10 ml	10 ml	10 ml
Substrate Tablets	4 tablets à 5 mg	5 tablets à 20 mg	10 tablets à 20 mg
High-binding ELISA plates	12 Modules à 8 wells	5 plates	10 plates
Sealing Cover	1	5	10

ELISA Positive and Negative Controls

Negative controls are made from a healthy host plant and are tested for the absence of the respective pathogen. They are lyophilized and sufficient for 10 test wells.

Positive controls are made from infected plant material or bacterial cultures, if not stated otherwise. They are lyophilized and sufficient for 10 test wells. Inactivated positive controls are additionally tested for the absence of infectivity. Unspecific non-pathogenic 'method' controls are sold for some quarantine pathogens (catalog nos. 07210PC or 07208PC).

LOEWE®FAST Rapid Test Series

The **LOEWE®FAST** rapid test series allows reliable and specific detection of plant pathogens within minutes. As stand-alone diagnostic tool these tests provide quick and easy assessment of suspicious plant material in the field or greenhouse without the need of a laboratory or.

LOEWE®FAST basic kits include:

- 5 single-use test cassettes
- 5 pre-filled tubes with sample buffer
- 5 single-use pipettes for sample application

Package sizes: 5 test kit, 20 test kit, and 50 test kit

Molecular Diagnostics

The PCR technique allows specific and sensitive detection of plant pathogens, when other test methods are not available or a second method is needed. In addition to our PCR sets for the detection of plant bacteria, phytoplasma and fungi, we are now offering convenient PCR Complete Reaction Kits.

PCR Sets

The PCR sets contain a premix, including the pathogen specific primers and dNTPs for 100 PCR reactions and positive and negative controls for 10 reactions. All components are pre-tested and each product is accompanied by a lot-specific certificate and a working protocol.

PCR Complete Reaction Kits

Explore this fast and cost effective way to establish PCR analysis in your lab! Your sample DNA* is subjected to a pre-tested and evaluated PCR system, without the hassle of optimizing reaction- and cycle conditions. Included are PCR reagents, premix, positive and negative controls, DNA-Polymerase and a detailed protocol, thus providing the perfect tool for a successful PCR analysis!

Content of the Kit for 100 PCR reactions:

- Premix (primers/dNTPs)
- Positive Control (10 reactions)
- Negative Control (10 reactions)
- DNA-Polymerase
- PCR Reaction Buffer
- PCR grade water