



Product Information

Complete Kits 5000 for the main potato viruses

Kit content

Component	5000 assays
IgG	1.0 ml
Conjugate	1.0 ml
Positive control	5 x 2.5 ml
Negative control	5 x 2.5 ml
Extraction buffer (10x)	5 x 500 ml
Coating buffer	10 tablets (1 l)
Conjugate buffer (10x)	100 ml
Substrate buffer (5x)	200 ml
Washing buffer	500 g
Substrate (pNPP)	bulk powder (5 g)
Egg albumin	250 g
Microtiter plates	60 x F96 plates

Intended use

All components of this kit are intended for use in combination with ELISA reagents for the detection of plant pathogens and not for use in human or animal application. For laboratory use only.

Storage and stability

All components of the kit are stable until the indicated expiration date when stored at 4 °C. Once diluted, the buffers are stable for up to one month at 4 °C. Exceptions are the washing buffer which should be used within 2 days, and the extraction buffer containing egg albumin which has to be prepared freshly before use. Use all buffers at room temperature, i.e. it is advisable to bring the aliquot needed for the actual test to room temperature before use. **Note:** For long-term storage (>3 months) keep the substrate tablets at -20 °C.

Ordering information

Pathogen	Abbr.	Art.No.	Reagent form	Assays
Potato leafroll virus	PLRV	110680	Complete kit 5000	5000
Potato virus A	PVA	112180	Complete kit 5000	5000
Potato virus M	PVM	110280	Complete kit 5000	5000
Potato virus S	PVS	110380	Complete kit 5000	5000
Potato virus X	PVX	110480	Complete kit 5000	5000
Potato virus Y monoclonal	PVY-mono	112580	Complete kit 5000	5000
Potato virus Y monoclonal cocktail	PVY-monocock	112980	Complete kit 5000	5000
Potato virus Y polyclonal	PVY-poly	110580	Complete kit 5000	5000

Buffer formulations

All buffers should be stored at 4°C. They are stable for 1 month after dilution/preparation. Use the prepared buffers at room temperature (20-25°C).

Washing buffer PBS-Tween

(pH 7.4; for 1000 ml)

in dist. water:

NaCl	8.00 g
KH ₂ PO ₄	0.20 g
Na ₂ HPO ₄	1.15 g
KCl	0.20 g
Tween 20	0.50 g

Contains no preservative. Use within 2 days or add 0.2 g/L NaN₃.
Washing buffer available as tablets for 1000 ml each, or as pre-mixed powder for larger amounts (Art. No. 110150/-54)

Coating buffer (pH 9.6; for 1000 ml)

in dist. water:

Na ₂ CO ₃	1.59 g
NaHCO ₃	2.93 g
NaN ₃	0.20 g

Coating buffer available as tablets for 100 ml each (Art. No. 110110/-12)

Conjugate buffer (pH 7.4; for 1000 ml)

in dist. water (pH adjusted with HCl)

TRIS	2.40 g
NaCl	8.00 g
PVP K25 (MW 24000)	20.00 g
Tween 20	0.50 g
BSA (bovine serum albumin)	2.00 g
MgCl ₂ · 6 H ₂ O	0.20 g
KCl	0.20 g
NaN ₃	0.20 g

Conjugate buffer available as 10x concentrate (Art. No. 110140/-42)

Substrate buffer (pH 9.8; for 1000 ml)

in dist. water (pH adjusted with HCl)

Diethanolamine	97.00 ml
NaN ₃	0.20 g

Substrate buffer available as 5x concentrate (Art. No. 110130/-32)

Extraction buffers*

Please note that special extraction buffers are used for testing different plant samples.

Extraction buffer «General»

(pH 7.4; for 1000 ml)

in dist. water (pH adjusted with HCl)

TRIS	2.40 g
NaCl	8.00 g
PVP K25 (MW 24000)	20.00 g
Tween 20	0.50 g
KCl	0.20 g
NaN ₃	0.20 g

Extraction buffer «General» available as 10x concentrate (Art. No. 110120)

Extraction buffer «Bulbs & Tubers»

(pH 7.4; for 1000 ml)

Extraction buffer «General»	1000 ml
Egg albumin (ovalbumin)	10.00 g

First dissolve 10 g of ovalbumin in about 20 ml of buffer and then make up to a total of 1000 ml with the remaining buffer. Prepare freshly before use.

Extraction buffer «General» (Art. No. 110120) and egg albumin (Art. No. 5461.1 or 5461.5), are available either separately or as extraction buffer «Bulbs & Tubers» set for 1000 samples (Art. No. 110122)

Extraction buffer «Grapevine»

(pH 8.2/ for 1000 ml)

in dist. water (pH adjusted with HCl)

TRIS	24.00 g
NaCl	8.00 g
PVP K25 (MW 24000)	20.00 g
PEG (MW 6000)	10.00 g
NaN ₃	0.20 g
Tween 20	0.50 g

Extraction buffer «Grapevine» available as 5x concentrate (Art. No. 110123)

Extraction buffer «Caulimo»

For buffer formulation please see www.bioreba.com ▶ Product Info CaMV

Caulimo buffer available as 10x concentrate (Art. No. 110124+110224)

* ELISA Extraction buffer: Depending on the plant samples to be analyzed, a different extraction buffer is required. For most plants, the extraction buffer «General» is appropriate. For testing grapevines, the extraction buffer «Grapevine» is required. For testing tubers and sprouts of potatoes, bulbs of onion and other Allium spp. as well as for seeds, the extraction buffer «Bulbs and Tubers» is necessary. CaMV testing needs the special extraction buffer «Caulimo». The information on appropriate use of extraction buffer is indicated on the «Product Information» delivered with the ELISA reagents.

Abbreviations: TRIS = Tris-(hydroxymethyl)aminomethane; PVP = Polyvinylpyrrolidone; PEG = Polyethylene glycol

Health Hazard:

To prevent microbial growth, the buffers contain 0.02 - 0.2 % sodium azide which is toxic when swallowed and irritant if it comes in contact with skin, eyes and mucosae; nevertheless, these products are not considered to present a hazard to health when used in accordance to the principles of Good Laboratory Practice and Occupational Hygiene. Used reagent can be disposed of in the waste water in accordance with local regulations.

Information sur le produit

Kit complet 5000 pour les principaux virus de la pomme de terre

Composition des kits

Composant	5000 tests
IgG	1.0 ml
Conjugué	1.0 ml
Témoin positif	5 x 2.5 ml
Témoin négatif	5 x 2.5 ml
Tampon d'extraction (10x)	5 x 500 ml
Tampon de coating	10 tablettes (1 l)
Tampon de conjugué (10x)	100 ml
Substrate buffer (5x)	200 ml
Tampon de lavage	500 g
Substrat (pNPP)	poudre (5 g)
Albumine d'œuf	250 g
Microplaques	60 x F96 plaques

Utilisation

Tous les composants du kit sont prévus pour être utilisés en laboratoire in vitro pour la détection de pathogènes de plantes par la technique ELISA. Ils ne sont pas destinés à l'usage pour l'homme ou l'animal.

Conservation et stabilité

Les composants des kits sont stables jusqu'à leur date de péremption s'ils sont conservés à 4 °C. Une courte période à température ambiante, pendant le transport notamment, n'affecte pas la péremption et la qualité des produits. Une fois dilué, selon le protocole, le tampon de lavage doit être utilisé rapidement (idéalement dans la journée) alors que les autres tampons se conservent bien à 4 °C (max. 1 mois). Exception faite du tampon d'extraction spécifique pour les bulbes et les tubercules auquel on rajoute de l'albumine d'œuf et qui doit être préparé juste avant utilisation. Il est conseillé d'attendre que les tampons aient atteint la température ambiante avant utilisation. **A noter:** Pour un stockage longue durée (>3 mois), les tablettes de substrat doivent être conservées à -20°C

Informations de commande

Agent pathogène	Abréviation	Art.No.	Forme de réactif	Tests
Potato leafroll virus	PLRV	110680	Kit complet 5000	5000
Potato virus A	PVA	112180	Kit complet 5000	5000
Potato virus M	PVM	110280	Kit complet 5000	5000
Potato virus S	PVS	110380	Kit complet 5000	5000
Potato virus X	PVX	110480	Kit complet 5000	5000
Potato virus Y monoclonal	PVY-mono	112580	Kit complet 5000	5000
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in dist. water (pH adjusted with HCl)

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