

This validation data sheet has been produced following recommendations of the EPDIA Quality Charter.
For further information, please visit the EPDIA website (www.epdia.eu)

PRODUCT/TEST CODE	CO-PepMV and AP-PepMV
Product/test description	Double Antibody Sandwich ELISA (DAS-ELISA) with use of specific polyclonal antibodies (Coating and Alkaline Phosphatase-conjugate)
MANUFACTURER	Prime Diagnostics Wageningen Plant Research PO Box 16 6700 AA Wageningen, The Netherlands email primediagnositics@wur.nl tel. +31 317 480613 internet www.primediagnositics.com

GENERAL INFORMATION

Target Organism(s)	Pepino Mosaic Virus (PepMV)
Method	DAS-ELISA
References	(1) Clark, M.F. (1981), Ann. Rev. Phytopathol. 19, 83-106 (2) Van Vuurde, J.W.L. and Maat, D.Z. (1985), Ned. J. Pl. Path. 91, 3-13 (3) Van der Vlugt, R.A.A., Cuperus, C., Vink, J., Stijger, C.C.M.M., Lesemann, .D.-E., Verhoeven, J.Th.J. and Roenhorst, J.W., EPPO Bulletin 32, 503-508

SCOPE

Scope	Detection of PepMV in plantmaterial
Matrix	Leaves, stem and seeds
Tested species	Solanum lycopersicum (tomato)

PERFORMANCE CHARACTERISTICS

Analytical specificity <i>(ability of the product/test to distinguish the target organism from other organisms and the degree in which the product/test can distinguish known variants of the organism)</i>	100% for detection of PepMV Tested: - 10 strains of PepMV-tom were all positive - 4 different strains of PepMV-Ch2, PepMV_US1, PepMV-Peru P1 were all positive - 20 strains of PVX, PAMV, TBRV, TMV, ToMV, TSWV, CMV, TAV and HVX were all negative
Cross reaction with	No cross-reaction found outside the PepMV strains



VALIDATION DATA SHEET

primediagnostics
Member of the European Plant
Diagnostic Industry Association

Analytical sensitivity <i>(limit of detection)</i>	Detection limit is below 24 pg purified PepMV per well
Reproducibility <i>(ability of the kit to provide consistent results when applied to aliquots of the same sample tested under different conditions)</i>	No data available
Repeatability <i>(the level of agreement between replicates of a sample tested under the same conditions)</i>	100%
Other performance characteristics	Na

REFERENCE MATERIAL

Type of reference material	Healthy and target contaminated seeds and leaves of plants were used as reference material.
Reference material control	Reference material was controlled internally (in-house) by RT-PCR and DAS-ELISA.

OTHER INFORMATION

Any other information considered useful	<i>Not available</i>
---	----------------------