

EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION
ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES
Summary sheet of validation data for a diagnostic test

The EPPO Standard PM 7/98 *Specific requirements for laboratories preparing accreditation for a plant pest diagnostic activity* describes how validation should be conducted. It also includes definitions of performance criteria.

Laboratory contact details	Prime Diagnostics 1, 6708 PB Wageningen, The Netherlands
Short description of the test	Detection of Potexvirus pepini (PepMV) by serological DAS-ELISA (prime diagnostics kit) in leaves and seeds
Date, reference of the validation report	2023-03-27 - VALIDATION DATA SHEET - CO-PepMV and AP-PepMV
Validation process according to EPPO Standard PM7/98?	no
Is the lab accredited for this test?	no
Was the validated data generated in the framework of a project?	no
Description of the test	
Organism(s)	Pepino mosaic virus / Potexvirus pepini (PEPMV0)
Detection / identification	detection
Method(s)	Serological DAS-ELISA
Method: Serological DAS-ELISA	
Reference of the test description	
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	yes
Kit	
Is a kit used	yes
Manufacturer name	PRIME DIAGNOSTICS
Specify the kit used	CO-PepMV and AP-PepMV
Kit used following the manufacturer's instructions?	yes
Other information	
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	
Organism 1.:	Potexvirus pepini(PEPMV0)
Analytical sensitivity	

What is smallest amount of target that can be detected reliably?	Detection limit is below 24 pg purified PepMV per well
<u>Analytical specificity - inclusivity</u>	
Number of strains/populations of target organisms tested	Tested: - 10 strains of PepMV-tom were all positive - 4 different strains of PepMV-Ch2, PepMV_US1, PepMV-Peru P1 were all positive
Specificity value	100% for the detection of PepMV
<u>Analytical specificity - exclusivity</u>	
Number of non-target organisms tested	20 strains of PVX, PAMV, TBRV, TMV, ToMV, TSWV, CMV, TAV and HVX were all negative
Specificity value	100%
Cross reacts with	
<u>Repeatability</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
Test performance study	
Test performance study?	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> • 230327 VALIDATION DATASHEET_ELISA PepMV

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