

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	Federal State Organization "All-Russian Plant Quarantine Center" Pogranichnaya str.32, Ramensky region, Moscow obl., 140150 Bykovo, Russian Federation
Short description of the test	Detection of Plum pox virus in plant extract by FLASH-PCR
Date, reference of the validation report	2011-01-01 - none
Validation process according to EPPO Standard PM7/98?	yes
Is the lab accredited for this test?	yes
Was the validated data generated in the framework of a project?	
Description of the test	
Organism(s)	Plum pox virus / Potyvirus plumpoxi (PPV000)
Detection / identification	detection
Method(s)	Molecular Extraction DNA RNA Molecular other
Method: Molecular Extraction DNA RNA	
Reference of the test description	
Kit	
Is a kit used	yes
Manufacturer name	AGRODIAGNOSTICA
Specify the kit used	PREP-GS kit
Kit used following the manufacturer's instructions?	
Other information	
Method: Molecular other	
Reference of the test description	
Other information	
Other details on the test	FLASH-PCR for detection of Plum pox virus
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	

Organism 1.:	Potyvirus plumpoxi(PPV000)
<u>Analytical sensitivity</u>	
What is smallest amount of target that can be detected reliably?	Dilution 1/78125 of isolate PV-0001 (DSMZ, Germany) in buffer
<u>Diagnostic sensitivity</u>	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	Same results
Standard test(s)	Conventional RT-PCR (P1/P2 EPPO DP 7/32)
<u>Analytical specificity - inclusivity</u>	
Number of strains/populations of target organisms tested	4 strains of Plum pox virus and 4 isolates of Plum pox virus (PV-0001, PV-0209, PV-0305, PV-0430 DSMZ, Germany)
Specificity value	Same results
<u>Analytical specificity - exclusivity</u>	
Number of non-target organisms tested	9 non-target organisms
Specificity value	Cross reaction was not observed
<u>Reproducibility</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% coincidence
<u>Repeatability</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% coincidence
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	you can find attached full validation report in Russian
The following complementary files are available online:	<ul style="list-style-type: none"> • 2011 validation FLSASH PCR PPV

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