



	in symptomatic and asymptomatic leaves of Prunus spp.
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	Other_project
<b>If yes, please specify</b>	VALITEST
<b>Description of the test</b>	
<b>Organism(s)</b>	Potyvirus plumpoxi(PPV000)
<b>Detection / identification</b>	detection
<b>Method(s)</b>	Molecular Extraction DNA RNA Molecular Conventional RT PCR
<b>Method: Molecular Extraction DNA RNA</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>EPPO Diagnostic Protocol name</b>	PM 7/032 Plum pox potyvirus (version 1)
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Is the test modified compared to the reference test</b>	no
<b>Kit</b>	
<b>Is a kit used</b>	yes
<b>Manufacturer name</b>	QIAGEN
<b>Specify the kit used</b>	RNeasy Plant Mini Kit
Kit used following the manufacturer's instructions?	no Followed RNA extraction protocol as described in Botermans et al., 2013 (Journal of Virological Methods, 187: 43-50)
<b>Other information</b>	
<b>Method: Molecular Conventional RT PCR</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>EPPO Diagnostic Protocol name</b>	PM 7/032 Plum pox potyvirus (version 1)
<b>As or adapted from an IPPC diagnostic protocol</b>	yes
<b>IPPC diagnostic Protocol name</b>	ISPM 27 Annex 02 DP 02: Plum pox virus (version

	2018)
<b>Name of the test</b>	Wetzel T, Candresse T, Ravelonandro M & Dunez J (1991) A polymerase chain reaction assay adapted to Plum pox potyvirus detection. Journal of Virological Methods 33, 355-365
<b>Is the test modified compared to the reference test</b>	yes "Higher concentration of dNTPs (0.4mM), OneStep RT-PCR buffer and Enzyme mix were used. The following PCR cycling conditions were used: RT-step: 50°C - 30 min Denaturation: 95°C - 15 min 40 cycles: 94°C - 30 sec 60°C - 30 sec 72°C - 1 min final extension: 72°C - 10 min"
<b>Kit</b>	
<b>Is a kit used</b>	no
<b>Other information</b>	
<b>Reaction type</b>	Simplex
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Potyvirus plumponxi(PPV000)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	PPV-infected Nicotiana benthamiana extracts could be diluted up to at least 10 <sup>4</sup> times in PPV free Prunus sp. extract and still show a positive signal
<b>Diagnostic sensitivity</b>	
<b>Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98</b>	100%
<b>Standard test(s)</b>	Known status of of samples. Positive samples with known Ct values were diluted in PPV free Prunus extract.
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	PPV strain An, C, CR, D, EA, M, Rec, T
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	NA
<b>Specificity value</b>	NA
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	87.5%
<b>Specify the test(s)</b>	Known status of of samples. All specimens were sequenced using NGS to verify viral content (PPV and other viruses)
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	98.75%

<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% evaluated with 2 replicate samples
<b>Test performance study</b>	
<b>Test performance study?</b>	yes
<b>Brief details of the test performance study and its output. It available, link to published article/report</b>	Test performance study organized in the framework of the VALITEST project involving 12 laboratories from 9 countries
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">VALITEST PPV TPS REPORT</a></li> </ul>

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