

**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.

<b>Laboratory contact details</b>	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
<b>Short description of the test</b>	Identification of <i>Bursaphelenchus xylophilus</i> by conventional PCR from Matsunaga & Togashi, 2004.
<b>Date, reference of the validation report</b>	2019-12-10 - Bx1
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	yes
<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>	<i>Bursaphelenchus xylophilus</i> (BURSXY)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Specimen
<b>Plant species tested</b>	
<b>Method(s)</b>	Molecular Conventional PCR
<b>Method: Molecular Conventional PCR</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	yes
<b>As or adapted from an IPPC diagnostic protocol</b>	yes
<b>IPPC diagnostic Protocol name</b>	ISPM 27 Annex 10 DP 10: <i>Bursaphelenchus xylophilus</i> (version 2016)
<b>Name of the test</b>	Matsunaga et al. 2004
<b>Is the test modified compared to the reference test</b>	no
<b>Kit</b>	

Is a kit used	no
<b>Other information</b>	
Reaction type	Simplex
Other details on the test	
Are the performance characteristics included in the EPPO diagnostic protocol?	
<b>Performance Criteria :</b>	
Organism 1.:	<b>Bursaphelenchus xylophilus(BURSXY)</b>
<b>Analytical sensitivity</b>	
What is smallest amount of target that can be detected reliably?	not applicable
<b>Diagnostic sensitivity</b>	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	80%
Standard test(s)	Comparison with samples of known status
<b>Analytical specificity - inclusivity</b>	
Number of strains/populations of target organisms tested	2 populations of Bursaphelenchus xylophilus either from China and Portugal
Specificity value	100%
<b>Analytical specificity - exclusivity</b>	
Number of non-target organisms tested	One population for each of the following species: B. macromucronatus, B. doui, B. hoffmani, B. kolymensis, B. mucronatus, B. sexdentati
Specificity value	100%
Cross reacts with	
<b>Diagnostic Specificity</b>	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	not applicable
Specify the test(s)	
<b>Reproducibility</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	
<b>Repeatability</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	
<b>Test performance study</b>	
Test performance study?	yes
Brief details of the test performance study and its output.It available, link to published article/report	Test performance study organised in the framework of the VALITEST project in 2019, including 17 participating laboratories from 14

	countries. Only 15 sets of data were considered for the analysis and calculation of performance criteria.
<b>Other information</b>	
<b>Any other information considered useful</b>	
The following complementary files are available online:	<ul style="list-style-type: none"><li>• <a href="#">VALITEST BX1 report</a></li></ul>

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