

**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 nested PCR (Takeuchi et al. 2005)
<b>Date, reference of the validation report</b>	2011-05-01 - Validation report may 2011
<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>	
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Bursaphelenchus xylophilus</i> (BURSXY)
<b>Detection / identification</b>	identification
<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>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	Takeuchi Y, Kansaki N & Futai K (2005) A nested PCR-based method for detecting the pinewood nematode, <i>Bursaphelenchus xylophilus</i> , from pinewood. <i>Nematology</i> 7(5), 775-782. Not included in appendix of PM7/4 (2).
<b>Other information</b>	
<b>Reaction type</b>	Nested
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Bursaphelenchus xylophilus</i>(BURSXY)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	5 nematodes

<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	7 populations
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	15 populations
<b>Specificity value</b>	cross reactions with some populations of B. mucronatus and B. sp from France and China
<b>Cross reacts with</b>	Bursaphelenchus sp. Bursaphelenchus mucronatus
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% for 5 individuals
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% for 5 individuals
<b>Test performance study</b>	
<b>Test performance study?</b>	no
<b>Other information</b>	
<b>Any other information considered useful</b>	The full report is available upon request to the laboratory. French version only

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