

**EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION
ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION
DES PLANTES**

(11-17239)

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.

Target Organism	Bursaphelenchus xylophilus	
Short description	Morphological identification of Bursaphelenchus xylophilus	
Laboratory contact details	Anses, Laboratoire de la Santé des Végétaux - Unité de Nématologie Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France	
Date and reference of the validation report	2011-05 - Evaluation de la méthode d'identification morphologique de Bursaphelenchus xylophilus	
Validation process according to EPPO Standard PM 7/98:	Yes	
Reference of the test description	0 Table 2	
Is the test the same as described in the EPPO DP?	Modified see full report	
Is the lab accredited for this test?	No	
Plant species tested (if relevant)	Not relevant	
Matrices tested (if relevant)	Not relevant	
<i>List of methods used</i>		
Method for extraction / isolation / baiting of target organism from matrix		
Molecular methods, e.g. hybridization, PCR and real time PCR		
Serological methods: IF, ELISA, Direct Tissue Blot Immuno Assay		
Plating methods: selective isolation		
Bioassay methods: selective enrichment in host plants, baiting, plant test and grafting.		

Pathogenicity test		
Fingerprint methods: protein profiling, fatty acid profiling & DNA profiling		
Morphological and morphometrical methods intended for identification	X	Morphological method for identification
Biochemical methods: e.g. enzyme electrophoresis, protein profiling		
Other		
<u>Analytical sensitivity (= limit of detection)</u>		
What is smallest amount of target that can be detected reliably?	2 nematodes (1 male and 1 female)	
<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	Not evaluated	
Specify the standard test	Not relevant	
<u>Analytical specificity</u>		
Specificity value	100%	
Number of strains/populations of target organisms tested	2 populations of Bursaphelenchus xylophilus	
Number of non-target organisms tested	1 population of non target species: B. sexdentati (target= xylophilus group) 6 non target populations (target=B. xylophilus): B. doui, B. macromucronatus, B.fraudulentus, B. singaporensis, B. mucronatus european type, B. mucronatus asian type	
Cross reacts with (specify the species)		
<u>Diagnostic Specificity</u>		
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	Not evaluated	
Specify the standard test		
<u>Reproducibility</u>		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (30 slides , 2 operators)	

<u>Repeatability</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100 % at group identification level 100% at species identification level
<u>Test performance study</u>	
Test performance study?	No
Include brief details of the test performance study and its output. If available, provide a link to published article/report	
<u>Other information</u>	
Any other information considered useful e.g. robustness, ease of performing the test, etc.	The full report is available upon request to the laboratory