

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	Brandenburg State Office of Rural Development, Agriculture and Land Consolidation (LELF) Steinplatz 1, 15806 Zossen, Germany
Short description of the test	detection of <i>Bursaphelenchus xylophilus</i> <i>Bursaphelenchus xylophilus</i> by in Woody cuttings
Date, reference of the validation report	2020-09-25 - Extraction of <i>Bursaphelenchus xylophilus</i> using Baermann funnel and mistifier technique
Link to other validation data	-
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?	no
If yes, please specify	
Description of the test	
Organism(s)	<i>Bursaphelenchus xylophilus</i> (BURSXY)
Detection / identification	detection
Matrix(ces) tested	Woody cuttings
Plant species tested	<i>Pinus</i>
Method(s)	Extraction
Method: Extraction	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	
EPPO Diagnostic Protocol name	PM 7/119 Nematode extraction (version 1)
Name of the test	Mistifier technique (from plant material and vectors)
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the	no

reference test	
Other information	
Other details on the test	
Are the performance characteristics included in the EPPO diagnostic protocol?	
Performance Criteria :	
Organism 1.:	Bursaphelenchus xylophilus(BURSXY)
Analytical sensitivity	
What is smallest amount of target that can be detected reliably?	85% of nematodes were recovered
Diagnostic sensitivity	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	
Standard test(s)	
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	
Specificity value	
Analytical specificity - exclusivity	
Number of non-target organisms tested	
Specificity value	
Cross reacts with	
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	
Specify the test(s)	
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (repeats of six subsamples of ca. 150 nematodes per 200 µl)
Test performance study	
Test performance study?	no
Brief details of the test performance study and its output. If available, link to published article/report	
Other information	
Any other information considered useful	

