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.

Short description of the test Date, reference of the validation report Date, reference of the validation report Zo11-05-01 - Evaluation d'outis moléculaires d'identification de Bursaphelenchus xylophilus sur individus isolés Validation process according to EPPO yes Standard PM7/98? Is the lab accredited for this test? No Was the validated data generated in the framework of a project? Description of the test Organism(s) Bursaphelenchus xylophilus(BURSXY) Detection / identification Method(s) Method: Molecular Conventional PCR Reference of the test description As or adapted from an EPPO diagnostic protocol EPPO Diagnostic Protocol name PM 7/004 Bursaphelenchus xylophilus (version 3) Name of the test Satellite DNA-based PCR technique (Castagnone et al., 2005) As or adapted from an IPPC diagnostic no protocol Is the test modified compared to the reference test Other information Other details on the test Performance Criteria: Organism 1.: Bursaphelenchus xylophilus(BURSXY)	Laboratory contact details	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
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Performance Criteria :	Other information	
	Other details on the test	satellite DNA species specific PCR
Organism 1.: Bursaphelenchus xylophilus(BURSXY)	Performance Criteria :	
	Organism 1.:	Bursaphelenchus xylophilus(BURSXY)
Analytical sensitivity		

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What is smallest amount of target that can be detected reliably?	2-5 nematods
<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 performed
Standard test(s)	Not relevant
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	7 populations (see table1)
Specificity value	100%
Analytical specificity - exclusivity	
Number of non-target organisms tested	15 populations (see table1)
Specificity value	100% - no cross reaction
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	Not performed
Specify the test(s)	Not relevant
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	95.8% for 2 nematodes 100% for 5 nematodes
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	See table 2. The full report is available upon request to the laboratory. French version only
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The following complementary files are available online:	 Table 1 Specificity_PCR Table 2_comparison of different PCR tests B xylophilus identification

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