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	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
Short description of the test	Identification of Bursaphelenchus xylophilus by species specific PCR Matsunaga & Togashi (2005)
Date, reference of the validation report	2011-05-01 - Validation report may 2011
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
Description of the test	
Organism(s)	Bursaphelenchus xylophilus (BURSXY)
Detection / identification	identification
Method(s)	Molecular Conventional PCR
Method: Molecular Conventional PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
As or adapted from an IPPC diagnostic protocol	no
Reference of the test	Matsunaga K. & Togashi K. (2005). A simple method for discriminating Bursaphelenchus xylophilus and B. mucronatus by speciesspecific polymerase chain reaction primers pairs. Nematology 6(2), 273-277. Not included in appendix of PM 7/04(2)
Other information	
Performance Criteria :	
Organism 1.:	**Bursaphelenchus xylophilus(BURSXY)**
Analytical sensitivity	
What is smallest amount of target that can be detected reliably?	5 nematodes

Diagnostic sensitivity	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100%
Standard test(s)	no standard test, samples artificially infested
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	7 populations (for details see table 2 in validation report)
Specificity value	100%
Analytical specificity - exclusivity	
Number of non-target organisms tested	15 populations (for details see table 2 in validation report)
Specificity value	100% - no cross reaction
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for 5 B. xylophilus individuals
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for 5 B. xylophilus individuals
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	The full report is available upon request to the laboratory. French version only
The following complementary files are available online:	• Table 2_comparison of different PCR tests B xylophilus identification

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