

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	ILVO Institute for Agricultural and Fisheries Research Burg. Van Gansberghelaan 96, 9820 Merelbeke, Belgium
Short description of the test	Identification of <i>Meloidogyne chitwoodi</i> by PCR
Date, reference of the validation report	2012-01-01 - F16_N10
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?	
If yes, please specify	
Description of the test	
Organism(s)	<i>Meloidogyne chitwoodi</i> (MELGCH)
Detection / identification	identification
Matrix(ces) tested	Specimen isolated nematodes
Plant species tested	
Method(s)	Molecular Conventional PCR
Method: Molecular Conventional PCR	
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 7/041 <i>Meloidogyne chitwoodi</i> and <i>M. fallax</i> (version 3)
Name of the test	PCR Wishart et al. 2002
As or adapted from an IPPC diagnostic protocol	
Is the test modified compared to the reference test	yes concentration of products slightly different
Kit	

Is a kit used	
Other information	
Reaction type	
Other details on the test	species specific PCR (IGS region)
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	
Organism 1.:	Meloidogyne chitwoodi(MELGCH)
Analytical sensitivity	
What is smallest amount of target that can be detected reliably?	2 juveniles: 100 % detection, 1 juvenile : 90% detection
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	1 population of M. minor, 1 population of M. naasi, 2 populations of M. enterolobii, 1 population of M. javanica
Specificity value	100%
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)	100% for 2 juveniles
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for 2 juveniles
Test performance study	
Test performance study?	no
Brief details of the test performance study and its output.It available, link to published article/report	

Other information	
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Any other information considered useful	
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Creation date: 2018-02-22 00:00:00 - Last update: 2021-05-20 17:48:18