

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	Detection of <i>Meloidogyne enterolobii</i> in a soil extract. Molecular extraction method.
Date, reference of the validation report	2025-12-01 - Method for the Detection of <i>Meloidogyne enterolobii</i> in a Soil Extract (Version 1)
Link to other validation data	- Method for the identification of <i>Meloidogyne enterolobii</i> by real-time PCR (ANSES/LSV/MA071 - partially) Identification of <i>Meloidogyne enterolobii</i> by Molecular real-time PCR in juveniles
Validation process according to EPPO Standard PM7/98?	no
Is the lab accredited for this test?	no
Was the validated data generated in the framework of a project?	EURL
If yes, please specify	EU-funded project EURLs-EURCs 2025-2027. Grant number: 101202127 SMP-FOOD-2025-EURL-EURC-PJG-IBA 2025-2027
Description of the test	
Organism(s)	<i>Meloidogyne enterolobii</i> (MELGMY)
Detection / identification	identification
Matrix(ces) tested	Soil Soil extract
Method(s)	Molecular Extraction DNA RNA
Method: Molecular Extraction DNA RNA	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	yes
As or adapted from an IPPC diagnostic protocol	no
Reference of the test	EURL protocol – MeloRT-PCR-Soil Version 01, for the detection of <i>M. chitwoodi</i> and <i>M. fallax</i>

Is the test modified compared to the reference test	no
Kit	
Is a kit used	yes
Manufacturer name	PROMEGA
Specify the kit used	Maxwell® RSC PureFood GMO and Authentication Kit
Kit used following the manufacturer's instructions?	yes
Other information	
Performance Criteria :	
Organism 1.:	Meloidogyne enterolobii(MELGMY)
Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	5 juveniles.
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)	N/a
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	population reference 21V3769
Specificity value	
Analytical specificity - exclusivity	
Number of non-target organisms tested	N/a
Specificity value	N/a
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100%
Specify the test(s)	N/a
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	N/a
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% evaluated on 3 replicates.
Test performance study	
Test performance study?	no
Other information	

Any other information considered useful

The report is not publicly available, but can be provided on request (eurl.nematodes@anses.fr). It is restricted to those registered to the EURL website (see link below): <https://sitesv2.anses.fr/en/minisite/plant-parasitic-nematodes/method-and-test-validation-reports> .

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