

**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.

<b>Laboratory contact details</b>	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
<b>Short description of the test</b>	Detection of <i>Meloidogyne enterolobii</i> in a soil extract. Molecular extraction method.
<b>Date, reference of the validation report</b>	2025-12-01 - Method for the Detection of <i>Meloidogyne enterolobii</i> in a Soil Extract (Version 1)
<b>Link to other validation data</b>	- 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
<b>Validation process according to EPPO Standard PM7/98?</b>	no
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	EURL
<b>If yes, please specify</b>	EU-funded project EURLs-EURCs 2025-2027. Grant number: 101202127 SMP-FOOD-2025-EURL-EURC-PJG-IBA 2025-2027
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Meloidogyne enterolobii</i> (MELGMY)
<b>Detection / identification</b>	identification
<b>Method(s)</b>	Molecular Extraction DNA RNA
<b>Method: Molecular Extraction DNA RNA</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	yes
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	EURL protocol - MeloRT-PCR-Soil Version 01, for the detection of <i>M. chitwoodi</i> and <i>M. fallax</i>
<b>Is the test modified compared to the reference test</b>	no

<b>Kit</b>	
<b>Is a kit used</b>	yes
<b>Manufacturer name</b>	PROMEGA
<b>Specify the kit used</b>	Maxwell® RSC PureFood GMO and Authentication Kit
Kit used following the manufacturer's instructions?	yes
<b>Other information</b>	
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Meloidogyne enterolobii(MELGMY)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	5 juveniles.
<b>Diagnostic sensitivity</b>	
<b>Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98</b>	100%
<b>Standard test(s)</b>	N/a
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	population reference 21V3769
<b>Specificity value</b>	
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	N/a
<b>Specificity value</b>	N/a
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	100%
<b>Specify the test(s)</b>	N/a
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	N/a
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% evaluated on 3 replicates.
<b>Test performance study</b>	
<b>Test performance study?</b>	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">Method For The Detection Of Meloidogyne Enterolobii In A Soil Extract</a></li> </ul>

