

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 - Melle, Belgium
Short description of the test	Detection of <i>Meloidogyne</i> sp. by extraction with automated zonal centrifuge (AZC) from soil and potato tubers, followed by microscopy
Date, reference of the validation report	2008-12-31 - F16_N01
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?	
Description of the test	
Organism(s)	<i>Meloidogyne</i> sp. (MELGSP) <i>Meloidogyne chitwoodi</i> (MELGCH) <i>Meloidogyne fallax</i> (MELGFA)
Detection / identification	detection and identification
Matrix(ces) tested	Soil, Tubers soil (different types), potato tubers
Method(s)	Extraction Morphological
Method: Extraction	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
EPPO Diagnostic Protocol name	PM 7/119 Nematode extraction (version 1)
Name of the test	Centrifugal flotation (from soil)
Is the test modified compared to the reference test	no
Other information	
Other details on the test	Extraction with automated zonal centrifuge (AZC)
Method: Morphological	
Reference of the test description	

As or adapted from an EPPO diagnostic protocol	yes
EPPO Diagnostic Protocol name	PM 7/041 Meloidogyne chitwoodi and M. fallax (version 2)
Name of the test	Morphological identification
Is the test modified compared to the reference test	no
Other information	
Other details on the test	microscopy
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	
Organism 1.:	Meloidogyne sp.(MELGSP)
Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	<5 targets: 30% detection; 5-9 targets: 70% detection; >10 targets: 100% detection
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for all levels
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	>5 targets: 100%
Organism 2.:	Meloidogyne chitwoodi(MELGCH)
Organism 3.:	Meloidogyne fallax(MELGFA)
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	method valid for different soil types

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