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.

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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	Molecular identification of Globodera pallida and G. rostochiensis - PCR-RFLP	
Date, reference of the validation report	2010-07-13 - Evaluation comparative de différents outils moléculaire spour l'identfiication de Globodera pallida et G. rostochiensis - ref 10/03	
Validation process according to EPPO Standard PM7/98?	yes	
Is the lab accredited for this test?	no	
Was the validated data generated in the framework of a project?		
Description of the test		
Organism(s)	Globodera pallida (HETDPA) Globodera rostochiensis (HETDRO)	
Detection / identification	identification	
Method(s)	Molecular PCR-RFLP	
Method: Molecular PCR-RFLP		
Reference of the test description		
As or adapted from an EPPO diagnostic protocol	yes	
EPPO Diagnostic Protocol name	PM 7/040 Globodera rostochiensis and Globodera pallida (version 2)	
Name of the test	ITS PCR-RFLP test (Thiéry & Mugniéry, 1996)	
Is the test modified compared to the reference test	no	
Other information		
Are the performance characteristics included in the EPPO diagnostic protocol?	yes	
Performance Criteria :		
Organism 1.:	Globodera pallida(HETDPA)	
<u>Analytical sensitivity</u>		

What is smallest amount of target that can be detected reliably?	1 individual of J2 stage	
Analytical specificity - inclusivity		
Number of strains/populations of target organisms tested	11 populations of G. pallida (refer to evaluation report 10/03 - annex 2)	
Specificity value	91% for G. pallida (1 non target species detected among 11)	
Analytical specificity - exclusivity		
Number of non-target organisms tested	7 populations tested (list of populations, refer to evaluation report 10/03 - annex 2)	
Specificity value	no cross reaction	
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	90% for G. pallida (at the level of 1 J2 stage)	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%	
Organism 2.:	Globodera rostochiensis(HETDRO)	
Analytical sensitivity		
What is smallest amount of target that can be detected reliably?	1 individual of J2 stage	
Analytical specificity - inclusivity		
Number of strains/populations of target organisms tested	4 populations of G. rostochiensis (refer to evaluation report 10/03 - annex 2)	
Specificity value	100% for G. rostochiensis	
Analytical specificity - exclusivity		
Number of non-target organisms tested	7 populations tested (list of populations, refer to evaluation report 10/03 - annex 2)	
Specificity value	no cross reaction	
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	93% for G. rostochiensis (at the level of 1 J2 stage)	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for both species	
Test performance study		
Test performance study?	no	
Other information		
Any other information considered useful	presence of unpublished profiles for South American populations of G. pallida. The full report is available upon request to the laboratory.	
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