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.

Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, FranceShort description of the testMolecular identification of Globodera pallida and G. rostochiensis - PCR-RFLPDate, reference of the validation report2010-07-13 - Evaluation comparative de differents outils moleculaire spour l'identification de Globodera pallida et G. rostochiensis - ref 10/03Validation process according to EPPO Standard PM7/98?yesIs the lab accredited for this test?noWas the validated data generated in the framework of a project?noOrganism(s)Globodera pallida(HETDPA) Globodera rostochiensis(HETDRO)Detection / identificationidentificationMethod(s)Molecular PCR-RFLPReference of the test descriptionyesAs or adapted from an EPPO diagnostic protocolyesEPPO Diagnostic Protocol namePM 7/040 Globodera rostochiensis and Globodera pallida (version 2)Name of the testITS PCR-RFLP test (Thiéry & Mugniéry, 1996)Is the test modified compared to the reference testnoOther informationyesAre the performance characteristics included in the EPPO diagnostic protocol?yesPerformance Criteria : Organism 1.:Globodera pallida(HETDPA)		
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Organism 1.: Globodera pallida(HETDPA)	Are the performance characteristics included in the EPPO diagnostic protocol?	yes
	Performance Criteria :	
Analytical sensitivity	Organism 1.:	Globodera pallida(HETDPA)
	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	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	
<u>Reproducibility</u>		
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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