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.

Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France		
Identification of Globodera pallida and G. rostochiensis by species specific PCR - Fullaondo 1999		
2010-07-13 - ref. 10/03		
yes		
no		
Description of the test		
Globodera pallida (HETDPA) Globodera rostochiensis (HETDRO)		
identification		
Molecular Conventional PCR		
Method: Molecular Conventional PCR		
Reference of the test description		
no		
no		
Fullaondo et al. (1999). Identification of potato cyst nematode species Globodera rostochiensis and G. pallida by PCR using specific primer combination. Nematology 1, 157-163		
Other information		
no		
Performance Criteria :		
Globodera pallida(HETDPA)		
Analytical sensitivity		

What is smallest amount of target that can be detected reliably?	1 J2	
Analytical specificity - inclusivity		
Number of strains/populations of target organisms tested	11 populations of G. pallida (for details see validation report annex 2)	
Specificity value	91% for G. pallida (1 non target species detected as G. pallida among 11 non target species)	
Analytical specificity - exclusivity		
Number of non-target organisms tested	7 populations nematodes species other than G. pallida or G. rostochiensis	
Specificity value	cross reaction with ""G. mexicana"" population (even if G. mexicana is not recognised as a validated species).	
Cross reacts with	Globodera mexicana	
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	86% for Globodera pallida (at 1 J2 level)	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% for Globodera pallida (at 1 J2 level)	
Organism 2.:	Globodera rostochiensis(HETDRO)	
Analytical sensitivity		
What is smallest amount of target that can be detected reliably?	1 J2	
Analytical specificity - inclusivity		
Analytical specificity - inclusivity		
Number of strains/populations of target organisms tested	4 populations for G. rostochiensis (for details see validation report annex 2)	
Number of strains/populations of target		
Number of strains/populations of target organisms tested	validation report annex 2)	
Number of strains/populations of target organisms tested Specificity value	validation report annex 2)	
Number of strains/populations of target organisms tested Specificity value Analytical specificity - exclusivity	validation report annex 2) 100 % for G. rostochiensis 7 populations nematodes species other than G.	
Number of strains/populations of target organisms tested Specificity value Analytical specificity - exclusivity Number of non-target organisms tested	validation report annex 2) 100 % for G. rostochiensis 7 populations nematodes species other than G. pallida or G. rostochiensis cross reaction with ""G. mexicana"" population (even if G. mexicana is not recognised as a	
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Test performance study		
Test performance study?	no	
Other information		
Any other information considered useful	The full report is available upon request to the laboratory.	

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