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	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
Short description of the test	Identification of Heterodera glycines by PCR
Date, reference of the validation report	2010-07-07 - Report 10/02
Validation process according to EPPO Standard PM7/98?	no
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)	Heterodera glycines(HETDGL)
Detection / identification	identification
Method(s)	Molecular Conventional PCR
Method: Molecular Conventional PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
EPPO Diagnostic Protocol name	PM 7/089 Heterodera glycines (version 1)
Name of the test	Conventional PCR with species specific primers protocol (Subbotin et al., 2001)
As or adapted from an IPPC diagnostic protocol	no
Other information	
Reaction type	Simplex - Duplex
Other details on the test	Species specific PCR in duplex with universal primers (GlyFI-rDNA2 + D2A-D3B) and species specific PCR in simplex (GlyFI-rDNA2)
Are the performance characteristics included in the EPPO diagnostic protocol?	**no**
Performance Criteria :	
Organism 1.:	**Heterodera glycines(HETDGL)**

Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	1
Specificity value	not calculated, but In duplex, no specific amplification for target and non-target species. In simplex, 3 non target species detected among 13 tested
Analytical specificity - exclusivity	
Number of non-target organisms tested	13
Specificity value	In simplex, cross reactions observed for H. betae/trifolii, H. schachtii, H. ciceri (all belonging to the Schachtii group which includes H. glycines).
Cross reacts with	Heterodera betae Heterodera schachtii Heterodera ciceri
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	As the analytical specificity of teh test is not sufficient, the other performance criteria were not evaluated
The following complementary files are available online:	• Populations list and results_Ou et al 2008

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