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
Date, reference of the validation report	2015-02-01 - validation report
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)	Heterodera glycines (HETDGL)
Detection / identification	identification
Matrix(ces) tested	Specimen isolated nematodes
Method(s)	Molecular real time PCR
Method: Molecular real time PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	no
EPPO Diagnostic Protocol name	PM 7/089 Heterodera glycines (version 2)
Name of the test	Duplex real-time PCR (Ye, 2012)
As or adapted from an IPPC diagnostic protocol	no
Other information	
Other details on the test	Species specific real time PCR test
Are the performance characteristics included in the EPPO diagnostic protocol?	**no**
Performance Criteria :	
Organism 1.:	**Heterodera glycines(HETDGL)**

Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	1 juvenile (Ct value<30 in our conditions)
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	6
Specificity value	100%
Analytical specificity - exclusivity	
Number of non-target organisms tested	20
Specificity value	Cross reaction observed with H. goettingiana with a Ct value >30
Cross-reacts with	Heterodera goettingiana
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (with 1 or 2 juveniles)
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (with 1 or 2 juveniles)
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	Robustness evaluated when changing annealing temperature (+/- 1]C), results were conform.
The following complementary files are available online:	• Populations list and results_Ye 2012

Creation date: 2015-05-10 00:00:00 - Last update: 2021-05-20 15:36:17