

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 <i>Heterodera glycines</i>
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)	<i>Heterodera glycines</i> (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	no
As or adapted from an IPPC diagnostic protocol	no
Reference of the test	OU S., PENG D., LIU X., LI Y., MOENS M. (2008). Identification of <i>Heterodera glycines</i> using PCR with sequence characterised amplified region (SCAR) primers. <i>Nematology</i> , 10(3), 397-403.
Other information	
Reaction type	Duplex
Other details on the test	Species specific PCR in duplex with universal primers (SCNFI-SCNRI + D2A-D3B)
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	
Organism 1.:	<i>Heterodera glycines</i>(HETDGL)
Analytical specificity - inclusivity	

Number of strains/populations of target organisms tested	1
Specificity value	not calculated
Analytical specificity - exclusivity	
Number of non-target organisms tested	13
Specificity value	Cross reactions observed with <i>H. schachtii</i> , <i>H. betae/trifolii</i> and <i>H. ciceri</i> (all belonging to the <i>Schachtii</i> group which includes <i>H. glycines</i>)
Cross reacts with	<i>Heterodera schachtii</i> <i>Heterodera betae</i> <i>Heterodera ciceri</i>
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	As the analytical specificity was not sufficient, the other performance criteria were not evaluated.
The following complementary files are available online:	<ul style="list-style-type: none"> • Populations list and results_Ou et al 2008

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