

**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.

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

<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	1
<b>Specificity value</b>	not calculated, but In duplex, no specific amplification for target and non-target species. In simplex, 3 non target species detected among 13 tested
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	13
<b>Specificity value</b>	In simplex, cross reactions observed for H. betae/trifolii, H. schachtii, H. ciceri (all belonging to the Schachtii group which includes H. glycines).
<b>Cross reacts with</b>	Heterodera betae Heterodera schachtii Heterodera ciceri
<b>Test performance study</b>	
<b>Test performance study?</b>	no
<b>Other information</b>	
<b>Any other information considered useful</b>	As the analytical specificity of teh test is not sufficient, the other performance criteria were not evaluated
The following complementary files are available online:	<ul style="list-style-type: none"> <li>• <a href="#">Populations list and results_Ou et al 2008</a></li> </ul>

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