

**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 <i>Globodera pallida</i> and <i>G. rostochiensis</i> by species specific PCR (Vejl 2002)
<b>Date, reference of the validation report</b>	2010-07-13 - Validation report ref. 10/03
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<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>	<i>Globodera pallida</i> (HETDPA) <i>Globodera rostochiensis</i> (HETDRO)
<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>	no
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	Vejl et al. (2002). Identification of PCN species ( <i>Globodera rostochiensis</i> , <i>G. pallida</i> ) by using of ITS-1 region's polymorphism. <i>Rostlinna Vyroba</i> 48, 486-489. not included in PM7/40
<b>Other information</b>	
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	no
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Globodera pallida</i>(HETDPA)</b>
<b>Analytical sensitivity</b>	
<b>What is the smallest amount of target that can be detected reliably?</b>	1 µg

<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	11 <i>G. pallida</i> populations for details see annex 2 from validation report
<b>Specificity value</b>	100% for <i>G. pallida</i>
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	7 nematode species populations different from <i>G. pallida</i> or <i>G. rostochiensis</i> (see Annex 2 from validation report)
<b>Specificity value</b>	<i>Globodera tabacum</i> (all groups/ sub-species) detected as <i>G. rostochiensis</i>
<b>Cross-reacts with</b>	<i>Globodera tabacum tabacum</i>
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% for <i>G. pallida</i> (1 J2)
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% for <i>G. pallida</i> (1 J2)
<b>Organism 2.:</b>	<b><i>Globodera rostochiensis</i>(HETDRO)</b>
<b>Analytical sensitivity</b>	
<b>What is the smallest amount of target that can be detected reliably?</b>	1 J2
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	4 <i>G. rostochiensis</i> populations for details see annex 2 from validation report
<b>Specificity value</b>	
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	7 nematode species populations different from <i>G. pallida</i> or <i>G. rostochiensis</i> (see Annex 2 from validation report)
<b>Specificity value</b>	Specificity value: 78% for <i>G. rostochiensis</i> (4 non target species populations among 18 identified as <i>G. rostochiensis</i> ) <i>Globodera tabacum</i> (all groups/ sub-species) detected as <i>G. rostochiensis</i>
<b>Cross-reacts with</b>	<i>Globodera tabacum tabacum</i>
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	83% for <i>G. rostochiensis</i> (1 J2)
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	87.5% for <i>G. rostochiensis</i> (1 J2)
<b>Test performance study</b>	

<b>Test performance study?</b>	no
<b>Other information</b>	
<b>Any other information considered useful</b>	The full report is available upon request to the laboratory.

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