

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.

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| 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> 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 | |
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| 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 | yes |
| EPPO Diagnostic Protocol name | PM 7/089 <i>Heterodera glycines</i> (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.: | <i>Heterodera glycines</i>(HETDGL) |

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|---|--|
| 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 |
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| 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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