

**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>	Phytopathology Laboratory of SNES GEVES 25 rue george Morel, 49070 Beaucouzé, France
<b>Short description of the test</b>	detection and identification of Ditylenchus dipsaci Ditylenchus dipsaci by Molecular real time RT PCR, Morphological in Seeds
<b>Date, reference of the validation report</b>	2019-03-08 - Validation SE PCR D. dipsaci on alfalfa seeds
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	yes
<b>Was the validated data generated in the framework of a project?</b>	Other_project
<b>If yes, please specify</b>	CASDAR Project
<b>Description of the test</b>	
<b>Organism(s)</b>	Ditylenchus dipsaci(DITYDI)
<b>Detection / identification</b>	detection and identification
<b>Matrix(ces) tested</b>	Seeds
<b>Plant species tested</b>	Medicago sativa
<b>Method(s)</b>	Molecular real time RT PCR Morphological
<b>Method: Molecular real time RT PCR</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	
<b>As or adapted from an IPPC diagnostic protocol</b>	
<b>Is the test modified compared to the reference test</b>	
<b>Kit</b>	
<b>Is a kit used</b>	
<b>Other information</b>	

<b>Other details on the test</b>	
<b>Method: Morphological</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	
<b>As or adapted from an IPPC diagnostic protocol</b>	
<b>Is the test modified compared to the reference test</b>	
<b>Other information</b>	
<b>Other details on the test</b>	
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Ditylenchus dipsaci(DITYDI)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	1 D. dipsaci
<b>Diagnostic sensitivity</b>	
<b>Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98</b>	100%
<b>Standard test(s)</b>	SE PCR and morpho biometric identification
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	30
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	saprophagus
<b>Specificity value</b>	100%
<b>Cross reacts with</b>	
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	100%
<b>Specify the test(s)</b>	
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%

<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b>Test performance study</b>	
<b>Test performance study?</b>	yes
<b>Brief details of the test performance study and its output. It available, link to published article/report</b>	
<b>Other information</b>	
<b>Any other information considered useful</b>	
The following complementary files are available online:	<ul style="list-style-type: none"> <li>• <a href="#">VALIDATION OF THE SEED EXTRACT PCR METHOD IN ORDER TO DETECT DITYLENCHUS DIPSACI IN ALFALFA SEEDS</a></li> </ul>

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