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	Phytopathology Laboratory of SNES GEVES 25 rue Georges Morel, 49070 Beaucouzé, France
Short description of the test	detection and identification of Ditylenchus dipsaci Ditylenchus dipsaci by Molecular real time RT PCR, Morphological in Seeds
Date, reference of the validation report	2019-03-08 - Validation SE PCR D. dipsaci on alfalfa seeds
Validation process according to EPPO Standard PM7/98?	yes
Is the lab accredited for this test?	yes
Was the validated data generated in the framework of a project?	Other_project
If yes, please specify	CASDAR Project
Description of the test	
Organism(s)	Ditylenchus dipsaci (DITYDI)
Detection / identification	detection and identification
Method(s)	Molecular real time RT PCR Morphological
Method: Molecular real time RT PCR	
Reference of the test description	
Other information	
Method: Morphological	
Reference of the test description	
Other information	
Performance Criteria :	
Organism 1.:	**Ditylenchus dipsaci(DITYDI)**
<u>Analytical sensitivity</u>	
What is smallest amount of target that can be detected reliably?	1 D. dipsaci
<u>Diagnostic sensitivity</u>	
Proportion of infected/infested samples tested positive compared to results from the	100%

standard test, see appendix 2 of PM 7/98	
Standard test(s)	SE PCR and morpho biometric identification
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	30
Specificity value	100%
Analytical specificity - exclusivity	
Number of non-target organisms tested	saprophagus
Specificity value	100%
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100%
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
Test performance study	
Test performance study?	yes
The following complementary files are available online:	• VALIDATION OF THE SEED EXTRACT PCR METHOD IN ORDER TO DETECT DITYLENCHUS DIPSACI IN ALFALFA SEEDS

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