

**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 | 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) |
| Analytical sensitivity | |
| What is smallest amount of target that can be detected reliably? | 1 D. dipsaci |
| Diagnostic sensitivity | |
| Proportion of infected/infested samples tested positive compared to results from the | 100% |

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| 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: | |
| | <ul style="list-style-type: none"> • VALIDATION OF THE SEED EXTRACT PCR METHOD IN ORDER TO DETECT DITYLENCHUS DIPSACI IN ALFALFA SEEDS |

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