

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 Bursaphelenchus xylophilus by species specific PCR Matsunaga & Togashi (2005) |
| Date, reference of the validation report | 2011-05-01 - Validation report may 2011 |
| 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? | no |
| Description of the test | |
| Organism(s) | Bursaphelenchus xylophilus (BURSXY) |
| 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 | no |
| As or adapted from an IPPC diagnostic protocol | no |
| Reference of the test | Matsunaga K. & Togashi K. (2005). A simple method for discriminating Bursaphelenchus xylophilus and B. mucronatus by species specific polymerase chain reaction primers pairs. Nematology 6(2), 273-277. Not included in appendix of PM 7/04(2) |
| Other information | |
| Performance Criteria : | |
| Organism 1.: | Bursaphelenchus xylophilus(BURSXY) |
| Analytical sensitivity | |
| What is smallest amount of target that can be detected reliably? | 5 nematodes |

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| Diagnostic sensitivity | |
| Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98 | 100% |
| Standard test(s) | no standard test, samples artificially infested |
| Analytical specificity - inclusivity | |
| Number of strains/populations of target organisms tested | 7 populations (for details see table 2 in validation report) |
| Specificity value | 100% |
| Analytical specificity - exclusivity | |
| Number of non-target organisms tested | 15 populations (for details see table 2 in validation report) |
| Specificity value | 100% - no cross reaction |
| Reproducibility | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% for 5 B. xylophilus individuals |
| Repeatability | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% for 5 B. xylophilus individuals |
| Test performance study | |
| Test performance study? | no |
| Other information | |
| Any other information considered useful | The full report is available upon request to the laboratory. French version only |
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| The following complementary files are available online: | <ul style="list-style-type: none"> • Table 2_comparison of different PCR tests B xylophilus identification |

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