

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 | Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands |
| Short description of the test | identification of <i>Anoplophora chinensis</i> <i>Anoplophora chinensis</i> by Molecular Sanger seq in Specimen |
| Date, reference of the validation report | 2022-03-17 - F-MOL-047-002 42237639 A. <i>chinensis</i> |
| 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 | |
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| Organism(s) | <i>Anoplophora chinensis</i> (ANOLCN) |
| Detection / identification | identification |
| Method(s) | Molecular Sanger seq |
| Method: Molecular Sanger seq | |
| Reference of the test description | |
| As or adapted from an EPPO diagnostic protocol | yes |
| Other information | |
| Other details on the test | Based on EPPO PM 7/129 |
| Performance Criteria : | |
| Organism 1.: | <i>Anoplophora chinensis</i>(ANOLCN) |
| Analytical sensitivity | |
| What is smallest amount of target that can be detected reliably? | See EPPO PM 7/129 4 ng/μL |
| Diagnostic sensitivity | |
| Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98 | See EPPO PM 7/129 98% |
| Analytical specificity - inclusivity | |

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| Number of strains/populations of target organisms tested | See added document |
| Specificity value | |
| Analytical specificity - exclusivity | |
| Number of non-target organisms tested | See added document |
| Specificity value | |
| <u>Diagnostic Specificity</u> | |
| Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test | x |
| <u>Reproducibility</u> | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | See EPPO PM 7/129 |
| <u>Repeatability</u> | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | See EPPO PM 7/129 |
| Test performance study | |
| Test performance study? | yes |
| Brief details of the test performance study and its output. It available, link to published article/report | TPS was organized in the framework of EUPHRESKO DNA Barcoding - Optimizing and validating DNA barcoding protocols for plant pests. Twenty-three laboratories participated from 15 countries. |
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| The following complementary files are available online: | <ul style="list-style-type: none"> • A. chinensis COI 42237639 |

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