

**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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| <b>Laboratory contact details</b>                                                                                                    | Netherlands Institute for Vectors, Invasive plants and Plant health<br>P.O. Box 9102, 6700 HC Wageningen, Netherlands            |
| <b>Short description of the test</b>                                                                                                 | identification of <i>Monochamus galloprovincialis</i><br><i>Monochamus galloprovincialis</i> by Molecular Sanger seq in Specimen |
| <b>Date, reference of the validation report</b>                                                                                      | 2019-05-06 - F-MOL-047-002 6921572A                                                                                              |
| <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>                                                               | no                                                                                                                               |
| <b>Description of the test</b>                                                                                                       |                                                                                                                                  |
| <b>Organism(s)</b>                                                                                                                   | <i>Monochamus galloprovincialis</i> (MONCGA)                                                                                     |
| <b>Detection / identification</b>                                                                                                    | identification                                                                                                                   |
| <b>Method(s)</b>                                                                                                                     | Molecular Sanger seq                                                                                                             |
| <b>Method: Molecular Sanger seq</b>                                                                                                  |                                                                                                                                  |
| <b>Reference of the test description</b>                                                                                             |                                                                                                                                  |
| <b>As or adapted from an EPPO diagnostic protocol</b>                                                                                | yes                                                                                                                              |
| <b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>                                  | yes                                                                                                                              |
| <b>Other information</b>                                                                                                             |                                                                                                                                  |
| <b>Other details on the test</b>                                                                                                     | Based on EPPO PM 7/129                                                                                                           |
| <b>Performance Criteria :</b>                                                                                                        |                                                                                                                                  |
| <b>Organism 1.:</b>                                                                                                                  | <b><i>Monochamus galloprovincialis</i>(MONCGA)</b>                                                                               |
| <b>Analytical sensitivity</b>                                                                                                        |                                                                                                                                  |
| <b>What is smallest amount of target that can be detected reliably?</b>                                                              | See EPPO PM 7/129 4 ng/μL                                                                                                        |
| <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> | See EPPO PM 7/129 98%                                                                                                            |

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|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Analytical specificity - inclusivity</b>                                                                                   |                                                                                                                                                                                              |
| <b>Number of strains/populations of target organisms tested</b>                                                               | See added identification report                                                                                                                                                              |
| <b>Specificity value</b>                                                                                                      |                                                                                                                                                                                              |
| <b>Analytical specificity - exclusivity</b>                                                                                   |                                                                                                                                                                                              |
| <b>Number of non-target organisms tested</b>                                                                                  | See added identification report                                                                                                                                                              |
| <b>Specificity value</b>                                                                                                      |                                                                                                                                                                                              |
| <b>Diagnostic Specificity</b>                                                                                                 |                                                                                                                                                                                              |
| <b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b> | x                                                                                                                                                                                            |
| <b>Reproducibility</b>                                                                                                        |                                                                                                                                                                                              |
| <b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>                                      | See added identification report                                                                                                                                                              |
| <b>Repeatability</b>                                                                                                          |                                                                                                                                                                                              |
| <b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>                                      | See added identification report                                                                                                                                                              |
| <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>             | 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"> <li>• <a href="#">Identification report</a></li> </ul>                                                                                                    |

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