

**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>                                      | Anses Plant Health Laboratory - Entomology and Invasive Plant Unit<br>755 avenue du Campus Agropolis CS30016,<br>Fr-34988 Montferrier-sur-Lez cedex, France |
| <b>Short description of the test</b>                                   | Identification of Rhagoletis pomonella species complex specimens by Sanger sequencing                                                                       |
| <b>Date, reference of the validation report</b>                        | 2026-06-25 - Val-2400292_1A                                                                                                                                 |
| <b>Validation process according to EPPO Standard PM7/98?</b>           | no                                                                                                                                                          |
| <b>Is the lab accredited for this test?</b>                            | no                                                                                                                                                          |
| <b>Was the validated data generated in the framework of a project?</b> | no                                                                                                                                                          |
| <b>Description of the test</b>                                         |                                                                                                                                                             |
| <b>Organism(s)</b>                                                     | Rhagoletis pomonella (RHAGPO)<br>Rhagoletis mendax (RHAGME)<br>Rhagoletis zephyria (RHAGZE)                                                                 |
| <b>Detection / identification</b>                                      | identification                                                                                                                                              |
| <b>Matrix(ces) tested</b>                                              | Specimen                                                                                                                                                    |
| <b>Method(s)</b>                                                       | Molecular Extraction DNA RNA<br>Molecular Sanger seq                                                                                                        |
| <b>Method: Molecular Extraction DNA RNA</b>                            |                                                                                                                                                             |
| <b>Reference of the test description</b>                               |                                                                                                                                                             |
| <b>As or adapted from an EPPO diagnostic protocol</b>                  | yes                                                                                                                                                         |
| <b>Kit</b>                                                             |                                                                                                                                                             |
| <b>Is a kit used</b>                                                   | yes                                                                                                                                                         |
| <b>Manufacturer name</b>                                               | QIAGEN                                                                                                                                                      |
| <b>Specify the kit used</b>                                            | DNeasy Blood & Tissue Kits                                                                                                                                  |
| <b>Kit used following the manufacturer's instructions?</b>             |                                                                                                                                                             |
| <b>Other information</b>                                               |                                                                                                                                                             |
| <b>Method: Molecular Sanger seq</b>                                    |                                                                                                                                                             |
| <b>Reference of the test description</b>                               |                                                                                                                                                             |

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| As or adapted from an EPPO diagnostic protocol                                | yes                                                        |
| <b>Other information</b>                                                      |                                                            |
| Other details on the test                                                     | COI - Conventional PCR adapted from Germain et al. (2013). |
| Are the performance characteristics included in the EPPO diagnostic protocol? | no                                                         |
| <b>Performance Criteria :</b>                                                 |                                                            |
| Organism 1.:                                                                  | <b>Rhagoletis pomonella(RHAGPO)</b>                        |
| <b><u>Analytical sensitivity</u></b>                                          |                                                            |
| What is the smallest amount of target that can be detected reliably?          | See EPPO PM7/129                                           |
| <b><u>Analytical specificity - inclusivity</u></b>                            |                                                            |
| Number of strains/populations of target organisms tested                      | See added identification report                            |
| Specificity value                                                             |                                                            |
| <b><u>Analytical specificity - exclusivity</u></b>                            |                                                            |
| Number of non-target organisms tested                                         | See added identification report                            |
| Specificity value                                                             |                                                            |
| Cross-reacts with                                                             | Rhagoletis mendax<br>Rhagoletis zephyria                   |
| Organism 2.:                                                                  | <b>Rhagoletis mendax(RHAGME)</b>                           |
| <b><u>Analytical sensitivity</u></b>                                          |                                                            |
| What is the smallest amount of target that can be detected reliably?          | See EPPO PM 7/129                                          |
| <b><u>Analytical specificity - inclusivity</u></b>                            |                                                            |
| Number of strains/populations of target organisms tested                      | See added identification report                            |
| Specificity value                                                             |                                                            |
| <b><u>Analytical specificity - exclusivity</u></b>                            |                                                            |
| Number of non-target organisms tested                                         | See added identification report                            |
| Specificity value                                                             |                                                            |
| Cross-reacts with                                                             | Rhagoletis pomonella<br>Rhagoletis zephyria                |
| Organism 3.:                                                                  | <b>Rhagoletis zephyria(RHAGZE)</b>                         |
| <b><u>Analytical sensitivity</u></b>                                          |                                                            |
| What is the smallest amount of target that can be detected reliably?          | See EPPO PM7/129                                           |
| <b><u>Analytical specificity - inclusivity</u></b>                            |                                                            |

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| <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>Cross-reacts with</b>                                        | Rhagoletis pomonella<br>Rhagoletis mendax                                                                                                     |
| <b>Test performance study</b>                                   |                                                                                                                                               |
| <b>Test performance study?</b>                                  | no                                                                                                                                            |
|                                                                 |                                                                                                                                               |
| The following complementary files are available online:         | <ul style="list-style-type: none"> <li>• <a href="#">Val-2400292_1A_Identification report_Rhagoletis pomonella species complex</a></li> </ul> |

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