

**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 | National Phytosanitary Laboratory Lielvardeš 36, 1006 Riga, Latvia |
| Short description of the test | Identification of <i>Liriomyza huidobrensis</i> by morphological method |
| Date, reference of the validation report | 2009-04-14 - |
| Validation process according to EPPO Standard PM7/98? | no |
| Is the lab accredited for this test? | yes |
| Was the validated data generated in the framework of a project? | |
| Description of the test | |
| Organism(s) | <i>Liriomyza huidobrensis</i> (LIRIHU) |
| Detection / identification | identification |
| Method(s) | Extraction Morphological |
| Method: Extraction | |
| Reference of the test description | |
| Other information | |
| Other details on the test | Visual inspection of the sticky traps, plants, parts of the plants, isolated insects with stereomicroscope |
| Method: Morphological | |
| Reference of the test description | |
| As or adapted from an EPPO diagnostic protocol | yes |
| EPPO Diagnostic Protocol name | PM 7/053 <i>Liriomyza</i> spp. (version 1) |
| Name of the test | Morphological identification |
| Is the test modified compared to the reference test | no |
| Other information | |
| Other details on the test | Morphological identification using stereomicroscope, biological microscope, reference material and checklist (IN.E.019) with most important morphological characters of the |

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| | Liriomyza huidobrensis, same morphological characters as described in PM 7/53 (1) |
| Are the performance characteristics included in the EPPO diagnostic protocol? | no |
| Performance Criteria : | |
| Organism 1.: | Liriomyza huidobrensis(LIRIHU) |
| Analytical sensitivity | |
| What is smallest amount of target that can be detected reliably? | one adult male |
| Diagnostic sensitivity | |
| Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98 | Not done |
| Diagnostic Specificity | |
| Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test | Not done |
| Reproducibility | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% (4 genitalia slides, each of them with one adult male genitalia of Liriomyza huidobrensis or Liriomyza bryoniae. 6 entomologists checked genitalia slides on six different days) |
| Repeatability | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% (4 genitalia slides, each of them with one adult male genitalia of Liriomyza huidobrensis or Liriomyza bryoniae. 2 replicates of Liriomyza huidobrensis and 2 replacates of Liriomyza bryoniae) |
| Test performance study | |
| Test performance study? | yes |
| Brief details of the test performance study and its output.It available, link to published article/report | Interlaboratory comparison tests with Finland, Estonian, Lithuanian, Latvian entomologists. Each entomologist tested 4 genitalia slides of Liriomyza huidobrensis and Liriomyza bryoniae. Result: success rate 100%. |

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