

**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.

<b>Laboratory contact details</b>	National Phytosanitary Laboratory Lielvarde 36, 1006 Riga, Latvia
<b>Short description of the test</b>	Identification of <i>Liriomyza huidobrensis</i> by morphological method
<b>Date, reference of the validation report</b>	2009-04-14 -
<b>Validation process according to EPPO Standard PM7/98?</b>	no
<b>Is the lab accredited for this test?</b>	yes
<b>Was the validated data generated in the framework of a project?</b>	
<b>If yes, please specify</b>	
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Liriomyza huidobrensis</i> (LIRIHU)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Specimen Sticky traps, plants, parts of the plants, isolated insects
<b>Plant species tested</b>	
<b>Method(s)</b>	Extraction Morphological
<b>Method: Extraction</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	
<b>As or adapted from an IPPC diagnostic protocol</b>	
<b>Is the test modified compared to the reference test</b>	
<b>Other information</b>	
<b>Other details on the test</b>	Visual inspection of the sticky traps, plants, parts of the plants, isolated insects with stereomicroscope
<b>Method: Morphological</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>	
<b>EPPO Diagnostic Protocol name</b>	PM 7/053 <i>Liriomyza</i> spp. (version 1)
<b>Name of the test</b>	Morphological identification
<b>As or adapted from an IPPC diagnostic protocol</b>	
<b>Is the test modified compared to the reference test</b>	no
<b>Other information</b>	
<b>Other details on the test</b>	Morphological identification using stereomicroscope, biological microscope, reference material and checklist (IN.E.019) with most important morphological characters of the <i>Liriomyza huidobrensis</i> , same morphological characters as described in PM 7/53 (1)
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	<b>no</b>
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Liriomyza huidobrensis(LIRIHU)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	one adult male
<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>	Not done
<b>Standard test(s)</b>	
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	
<b>Specificity value</b>	Not done
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	
<b>Specificity value</b>	
<b>Cross reacts with</b>	
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	Not done
<b>Specify the test(s)</b>	

<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	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)
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	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 replicates of Liriomyza bryoniae )
<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>	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%.
<b>Other information</b>	
<b>Any other information considered useful</b>	

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