

**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>	ILVO Institute for Agricultural and Fisheries Research Burg. Van Gansberghelaan 96, 9820 Merelbeke - Melle, Belgium
<b>Short description of the test</b>	Morphological identification of Thrips palmi
<b>Date, reference of the validation report</b>	2011-05-19 - F16_I11
<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>Description of the test</b>	
<b>Organism(s)</b>	Thrips palmi (THRIPL)
<b>Detection / identification</b>	identification
<b>Method(s)</b>	Extraction Morphological
<b>Method: Extraction</b>	
<b>Reference of the test description</b>	
<b>Other information</b>	
<b>Other details on the test</b>	Visual inspection of the microscopic slides with microscope
<b>Method: Morphological</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>EPPO Diagnostic Protocol name</b>	PM 7/003 <i>Thrips palmi</i> (version 1)
<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 microscope and checklists F03_I05 (adults) or F03_I06 (2nd instar 1 / 3 larvae) with most important morphological characters of T. palmi. The morphological characters for the adults are described in PM 7/3

	(1) and used in the checklist. The morphological characters for the 2nd instar larvae in the checklist are based on Masahisa Miyazaki Iwao Kuda (1986)(*) Before the analysis starts there is always a control of an adult or 2nd instar larva (standard reference material from the Netherlands) with checklist F03_I17 (adult) or F03_I16 (2nd instar larva). Checklist F03_I29 is used to determine the stage of the thrips (adult, 1st or 2nd larva).
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	<b>no</b>
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Thrips palmi(THRIPL)</b>
<b><u>Analytical sensitivity</u></b>	
<b>What is smallest amount of target that can be detected reliably?</b>	1 thrips (adult or larva) 20 microscopic slides were made (9 slides with 1 adult and 11 slides with 1 larva (2nd instar larva)). Four annalists checked the slides. Each annalists was capable to detect the thrips (adult or larva) on the slides and was able to determine whether it was T. palmi or not.
<b><u>Diagnostic sensitivity</u></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><u>Analytical specificity - inclusivity</u></b>	
<b>Number of strains/populations of target organisms tested</b>	Not done
<b>Specificity value</b>	
<b><u>Analytical specificity - exclusivity</u></b>	
<b>Number of non-target organisms tested</b>	Not done
<b>Specificity value</b>	Not done
<b><u>Diagnostic Specificity</u></b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	Not done
<b><u>Reproducibility</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% 10 microscopic slides with one adult or 2nd instar larva. Four annalists checked the slides on four different days.
<b><u>Repeatability</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100% 4 microscopic slides (each one with 1 adult). Five replicates and 4 annalists.
<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</b>	PhytoPAS Proficiency test PL0116 (Fapas, May 2009) with 10 participating laboratories, including

<b>article/report</b>	DCP. 3 microscopic slides with 1 adult thrips, 1 slide with T. palmi, 1 slide with T. flavus and 1 slide with T. tabaci. DCP 100% satisfactory.
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