

**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>	Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands
<b>Short description of the test</b>	identification of Thaumatotibia leucotreta by Molecular Sanger seq in Specimen
<b>Date, reference of the validation report</b>	2023-04-11 - F-MOL-047-002 65856512
<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>	Thaumatotibia leucotreta (ARGPLE)
<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>EPPO Diagnostic Protocol name</b>	PM 7/129 DNA barcoding as an identification tool for a number of regulated pests (version 2)
<b>Other information</b>	
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Thaumatotibia leucotreta(ARGPLE)</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%

<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.
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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