

**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>	Council for Agricultural Research and Economics– Research Centre for Plant Protection and Certification Via Carlo Giuseppe Bertero, 22, 00156 Rome, Italy
<b>Short description of the test</b>	Interlaboratory validation of <i>Ceratocystis platani</i> Real-Time PCR TaqMan on wood of <i>Platanus x</i> <i>acerifolia</i>
<b>Date, reference of the validation report</b>	2025-04-22 - Interlaboratory validation of <i>Ceratocystis platani</i> real-time PCR TaqMan in wood of <i>Platanus x acerifolia</i> (corresponding Pilotti M)
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	Euphresco
<b>If yes, please specify</b>	Euphresco project 2015-A-118 “Identification and early detection of <i>Cryphonectria parasitica</i> and <i>Ceratocystis platani</i> occurring on trees in Europe, CERACRY
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Ceratocystis platani</i> (CERAFP)
<b>Detection / identification</b>	detection and identification
<b>Matrix(ces) tested</b>	Wood
<b>Plant species tested</b>	<i>Platanus x hispanica</i>
<b>Method(s)</b>	Molecular real time PCR
<b>Method: Molecular real time PCR</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 7/014 <i>Ceratocystis fimbriata</i> f. sp. <i>platani</i> (version 2)
<b>Name of the test</b>	Real-time PCR (Pilotti et al., 2012) Test version 2: dual-labelled probe (Taqman)
<b>Is the test modified compared to the reference test</b>	no

<b>Kit</b>	
<b>Is a kit used</b>	no
<b>Other information</b>	
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Ceratocystis platani(CERAFP)</b>
<b>Analytical sensitivity</b>	
<b>What is the smallest amount of target that can be detected reliably?</b>	3 fg per PCR reaction
<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>	100% - 100% evaluated with four different mastermixes (see Brunetti et al., 2022)
<b>Standard test(s)</b>	Comparison with samples of known status
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	99% - evaluated with four different mastermixes (see Brunetti et al., 2022)
<b>Specify the test(s)</b>	Comparison with samples of known status
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	99% evaluated on the LOD by nine participant laboratories
<b>Test performance study</b>	
<b>Test performance study?</b>	no
<b>Brief details of the test performance study and its output.It available, link to published article/report</b>	Test performance study as organized in the framework of the Euphresco project 2015-A_118 (CERACRY) involving 9 laboratories from 4 countries
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">Brunetti et al 2022</a></li> </ul>

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