## 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.

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

Other information		
Performance Criteria :		
Organism 1.:	Ceratocystis platani(CERAFP)	
Analytical sensitivity		
What is smallest amount of target that can be detected reliably?	3 fg per PCR reaction	
Diagnostic sensitivity		
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100% - 100% evaluated with four different mastermixes (see Brunetti et al., 2022)	
Standard test(s)	Comparison with samples of known status	
Diagnostic Specificity		
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	99% - evaluated with four different mastermixes (see Brunetti et al., 2022)	
Specify the test(s)	Comparison with samples of known status	
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	99% evaluated on the LOD by nine participant laboratories	
Test performance study		
Test performance study?	no	
Brief details of the test performance study and its output.It available, link to published article/report	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:	• <u>Brunetti et al 2022</u>	

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