## 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	Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands	
Short description of the test	Identification of Curtobacterium flaccumfaciens pv flaccumfaciens by conventional PCR	
Date, reference of the validation report	2011-06-24 - 2011 Validation report PCR for identification of Curtobacterium flaccumfaciens pv flaccumfaciens	
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?		
Description of the test		
Organism(s)	Curtobacterium flaccumfaciens pv. flaccumfaciens (CORBFL)	
Detection / identification	identification	
Method(s)	Molecular Extraction DNA RNA Molecular Extraction DNA RNA (2) Molecular Conventional PCR	
Method: Molecular Extraction DNA RNA		
Reference of the test description		
Kit		
Is a kit used	yes	
Manufacturer name	BIONOBILE	
Specify the kit used	QuickPick Plant DNA kit	
Kit used following the manufacturer's instructions?		
Other information		
Method: Molecular Extraction DNA RNA (2)		
Reference of the test description		
Kit		
Is a kit used	yes	

Manufacturer name	ROCHE		
Specify the kit used	High Pure PCR Template Preparation Kit		
Kit used following the manufacturer's instructions?			
Other information			
Method: Molecular Conventional PCR			
Reference of the test description			
As or adapted from an EPPO diagnostic protocol	yes		
EPPO Diagnostic Protocol name	PM 7/102 Curtobacterium flaccumfaciens pv. flaccumfaciens (version 1)		
Name of the test	Conventional PCR (Tegli et al., 2002)		
Is the test modified compared to the reference test	no		
Other information			
Are the performance characteristics included in the EPPO diagnostic protocol?	no		
Performance Criteria :			
Organism 1.:	Curtobacterium flaccumfaciens pv. flaccumfaciens(CORBFL)		
Analytical sensitivity			
What is smallest amount of target that can be detected reliably?	2,3 x 10^7 cfu/ml.		
Diagnostic sensitivity			
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100%		
Standard test(s)	IF in combination with Fatty Acid Analysis		
Analytical specificity - inclusivity			
Number of strains/populations of target organisms tested	11 strains of Curtobacterium flaccumfaciens pv flaccumfaciens		
Specificity value	100%		
Analytical specificity - exclusivity	Analytical specificity - exclusivity		
Number of non-target organisms tested	20 strains of non-target organisms		
Specificity value	100% - no cross reaction		
Diagnostic Specificity			
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100%		
Specify the test(s)	IF in combination with Fatty Acid Analysis		
Reproducibility			
Provide the calculated % of agreement for a	100%		

given level of the pest (see PM 7/98)		
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%	
Test performance study		
Test performance study?	no	
Other information		
Any other information considered useful	For the robustness: the DNA isolation methodology was tested in order to investigate whether this could have any influence on the outcome of the test. Both the QuickPick Plant DNA Kit (Bio-Nobile) on the Kingfisher and the High Pure PCR template preparation kit (Roche) performed equally well.	
The following complementary files are available online:	2011 Validation report PCR for identification of Cff	

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