

**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 Curtobacterium flaccumfaciens pv flaccumfaciens by conventional PCR
<b>Date, reference of the validation report</b>	2011-06-24 - 2011 Validation report PCR for identification of Curtobacterium flaccumfaciens pv flaccumfaciens
<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>	
<b>Description of the test</b>	
<b>Organism(s)</b>	Curtobacterium flaccumfaciens pv. flaccumfaciens(CORBFL)
<b>Detection / identification</b>	identification
<b>Method(s)</b>	Molecular Extraction DNA RNA Molecular Extraction DNA RNA (2) Molecular Conventional PCR
<b>Method: Molecular Extraction DNA RNA</b>	
<b>Reference of the test description</b>	
<b>Kit</b>	
<b>Is a kit used</b>	yes
<b>Manufacturer name</b>	BIONOBILE
<b>Specify the kit used</b>	QuickPick Plant DNA kit
Kit used following the manufacturer's instructions?	
<b>Other information</b>	
<b>Method: Molecular Extraction DNA RNA (2)</b>	
<b>Reference of the test description</b>	
<b>Kit</b>	
<b>Is a kit used</b>	yes

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

<b>given level of the pest (see PM 7/98)</b>	
<b><u>Repeatability</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b>Test performance study</b>	
<b>Test performance study?</b>	no
<b>Other information</b>	
<b>Any other information considered useful</b>	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:	<ul style="list-style-type: none"> <li>• <a href="#">2011 Validation report PCR for identification of Cff</a></li> </ul>

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