

**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>	Detection of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> from symptomatic plant material by plating
<b>Date, reference of the validation report</b>	2010-04-01 - BAC-2010-03 Methodevalidatie van de uitplaattoets voor <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> uit bladstengel van tomaat
<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>	<i>Clavibacter michiganensis</i> (CORBMI)
<b>Detection / identification</b>	detection
<b>Method(s)</b>	Isolation
<b>Method: Isolation</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 7/042 <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (version 2)
<b>Name of the test</b>	Dilution plating on semi selective media (CMMIT, SCMF or SCM) - plant tissue
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Other information</b>	
<b>Other details on the test</b>	Isolation plating on two semi-selective media : FSCM and CMM1
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Clavibacter michiganensis</i>(CORBMI)</b>

<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	1.0x10 <sup>3</sup> cfu/ml for CMM1 and 9.0x10 <sup>2</sup> cfu/ml for FSCM
<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>	Isolation on the conventional media SCM and D2ANX
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	20 cmm strains (see details in the full validation report)
<b>Specificity value</b>	95%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	20 related strains (see details in the full validation report)
<b>Specificity value</b>	Cross reaction was only observed for <i>Pseudomonas corrugata</i> on the FSCM medium, resembling the colony morphology of cmm on this medium. However, <i>Pseudomonas corrugata</i> could not grow on the CMM1 medium.
<b>Cross reacts with</b>	<i>Pseudomonas corrugata</i>
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	95%
<b>Specify the test(s)</b>	Isolation on the conventional media SCM and D2ANX
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b>Repeatability</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 selectivity two different varieties of <i>Solanum lycopersicum</i> were included in this validation (Money maker and Saint Pierre). For both varieties comparable growth results were acquired.
The following complementary files are available	<ul style="list-style-type: none"> <li>• <a href="#">Method validation of the isolation method</a></li> </ul>

online:	<a href="#">for Clavibacter michiganensis subsp. michiganensis from infected plant material. Plant Protection Service (in Dutch)</a>
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