

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	Detection of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> from seed by plating
Date, reference of the validation report	2010-02-02 - Validation Report of the isolation method for <i>Clavibacter michiganensis michiganensis</i> (Naktuinbouw version: 1.0)
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)	<i>Clavibacter michiganensis</i> (CORBMI)
Detection / identification	detection
Matrix(ces) tested	Seeds Seed lots with both a high and a low saprophytic background were included in the validation
Plant species tested	<i>Solanum lycopersicum</i>
Method(s)	Isolation
Method: Isolation	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
EPPO Diagnostic Protocol name	PM 7/042 <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (version 2)
Name of the test	Dilution plating on semi selective media (CMMIT and SCMF or SCM) - seeds
As or adapted from an IPPC diagnostic protocol	no
Other information	
Other details on the test	Isolation plating on two semi-selective media : FSCM and CMM1

Performance Criteria :	
Organism 1.:	Clavibacter michiganensis(CORBMI)
Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	25 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)	Isolation on the conventional media SCM and D2ANX
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	20 cmm strains (see details in the full validation report)
Specificity value	95%
Analytical specificity - exclusivity	
Number of non-target organisms tested	20 related strains (see details in the full validation report)
Specificity value	No cross reaction, growth performance of cmm strains is higher than the growth performance of the related bacteria
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100%
Specify the test(s)	Isolation on the conventional media SCM and D2ANX
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	93.8%
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
The following complementary files are available online:	
	<ul style="list-style-type: none"> • Validation report of the isolation method for Clavibacter michiganensis subsp. michiganensis, Naktuinbouw 2010-02