

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>Xanthomonas vesicatoria</i> by plating onto several different media
Date, reference of the validation report	2015-06-12 - BAC-2011-14
Validation process according to EPPO Standard PM7/98?	yes
Is the lab accredited for this test?	yes
Was the validated data generated in the framework of a project?	no
Description of the test	
Organism(s)	<i>Xanthomonas vesicatoria</i> (XANTVE)
Detection / identification	detection
Method(s)	Isolation
Method: Isolation	
Reference of the test description	
Other information	
Performance Criteria :	
Organism 1.:	<i>Xanthomonas vesicatoria</i>(XANTVE)
Analytical sensitivity	
What is smallest amount of target that can be detected reliably?	1.06x10 ³ cfu/ml on NSCAA media 3.8x10 ³ cfu/ml on Wilbrink media
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)	This is a comparison with samples of known status.
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	four strains of <i>Xanthomonas vesicatoria</i>
Specificity value	100%

Analytical specificity - exclusivity	
Number of non-target organisms tested	Xanthomonas euvesicatoria, Xanthomonas perforans, Xanthomonas gardneri, Agrobacterium tumefaciens, Clavibacter michiganensis michiganensis, Pseudomonas corrugata, Pseudomonas syringae syringae, Pseudomonas syringae tomato, Ralstonia solanacearum
Specificity value	67%
Cross reacts with	Xanthomonas euvesicatoria Xanthomonas perforans Xanthomonas gardneri
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	n.d.
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
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	Two matrices were tested: tomato and sweet pepper. No effect of either on the growth of X. vesicatoria on NSCAA and Wilbrink media was found.
The following complementary files are available online:	<ul style="list-style-type: none"> • Validation report in Dutch

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