

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

<b>Number of strains/populations of target organisms tested</b>	four strains of Xanthomonas vesicatoria
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	Xanthomonas euvesicatoria, Xanthomonas perforans, Xanthomonas gardneri, Agrobacterium tumefaciens, Clavibacter michiganensis michiganensis, Pseudomonas corrugata, Pseudomonas syringae syringae, Pseudomonas syringae tomato, Ralstonia solanacearum
<b>Specificity value</b>	67%
<b>Cross-reacts with</b>	Xanthomonas euvesicatoria Xanthomonas perforans Xanthomonas gardneri
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	n.d.
<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>	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"> <li>• <a href="#">Validation report in Dutch</a></li> </ul>

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