

**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>	Validation of the identification of <i>Xanthomonas citri</i> pv. <i>aurantifolii</i> and <i>Xanthomonas citri</i> pv. <i>citri</i> by MALDI-TOF MS.
<b>Date, reference of the validation report</b>	2024-09-09 - BAC-2023-04
<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 citri</i> pv. <i>citri</i> (XANTCI) <i>Xanthomonas citri</i> pv. <i>aurantifolii</i> (XANTAU)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Pure culture The isolates were taken from our own collection.
<b>Method(s)</b>	MALDI-TOF
<b>Method: MALDI-TOF</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	yes
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Is the test modified compared to the reference test</b>	no
<b>Other information</b>	
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Xanthomonas citri</i> pv. <i>citri</i>(XANTCI)</b>
<b>Organism 2.:</b>	<b><i>Xanthomonas citri</i> pv. <i>aurantifolii</i>(XANTAU)</b>

<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	Four X. citri pv. aurantifolii isolates and fifteen X. citri pv. citri isolates were tested.
<b>Specificity value</b>	100% of all X. citri pv. citri and X. citri pv. aurantifolii isolates were identified correctly.
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	Six X. citri of other pvs were tested, seventeen other Xanthomonads were tested, three other bacteria were tested.
<b>Specificity value</b>	10 of the non-target isolates were identified as x. citri pv. citri
<b>Cross-reacts with</b>	Xanthomonas citri pv. punicae Xanthomonas citri pv. sesbaniae Xanthomonas citri pv. vignicola Xanthomonas citri pv. viticola Xanthomonas axonopodis pv. begoniae Xanthomonas axonopodis pv. dieffenbachiae Xanthomonas axonopodis pv. poinsettiicola Xanthomonas campestris pv. fici Xanthomonas cassavae Xanthomonas euvesicatoria
<b>Test performance study</b>	
<b>Test performance study?</b>	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">Report MALDI X. citri</a></li> </ul>

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