

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	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.
Date, reference of the validation report	2024-09-09 - BAC-2023-04
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 citri</i> pv. <i>citri</i> (XANTCI) <i>Xanthomonas citri</i> pv. <i>aurantifolii</i> (XANTAU)
Detection / identification	identification
Method(s)	MALDI-TOF
Method: MALDI-TOF	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	yes
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the reference test	no
Other information	
Performance Criteria :	
Organism 1.:	<i>Xanthomonas citri</i> pv. <i>citri</i> (XANTCI)
Organism 2.:	<i>Xanthomonas citri</i> pv. <i>aurantifolii</i> (XANTAU)
Analytical specificity - inclusivity	
Number of strains/populations of target	Four <i>X. citri</i> pv. <i>aurantifolii</i> isolates and fifteen <i>X.</i>

organisms tested	citri pv. citri isolates were tested.
Specificity value	100% of all X. citri pv. citri and X. citri pv. aurantifolii isolates were identified correctly.
Analytical specificity - exclusivity	
Number of non-target organisms tested	Six X. citri of other pvs were tested, seventeen other Xanthomonads were tested, three other bacteria were tested.
Specificity value	10 of the non-target isolates were identified as x. citri pv. citri
Cross reacts with	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. poinsetticola Xanthomonas campestris pv. fici Xanthomonas cassavae Xanthomonas euvesicatoria
Test performance study	
Test performance study?	no
The following complementary files are available online:	<ul style="list-style-type: none"> • Report MALDI X. citri

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