

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	Identification of Acidovorax citrulli in pure cultures by MALDI-TOF MS analysis
Date, reference of the validation report	2022-10-07 - BAC-2021-02
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?	no
Description of the test	
Organism(s)	Acidovorax citrulli (PSDMAC)
Detection / identification	identification
Matrix(ces) tested	Pure culture
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?	no
As or adapted from an IPPC diagnostic protocol	no
Other information	
Other details on the test	MALDI-TOF MS analysis was performed on a Bruker machine.
Performance Criteria :	
Organism 1.:	Acidovorax citrulli(PSDMAC)
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	15 isolates of Acidovorax citrulli

Specificity value	100% (15 out of 15 isolates were correctly identified as <i>Acidovorax citrulli</i>)
<u>Analytical specificity - exclusivity</u>	
Number of non-target organisms tested	Three <i>Pseudomonas</i> species and 12 non-citrulli <i>Acidovorax</i> species.
Specificity value	100% (15 out of 15 non-target species could be excluded)
Cross-reacts with	
<u>Reproducibility</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (4 isolates were analysed by 2 different operators and identified correctly)
<u>Repeatability</u>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100% (4 isolates were analysed twice and identified correctly)
Test performance study	
Test performance study?	no
The following complementary files are available online:	• Validation report Maldi-TOF MS <i>A. citrulli</i>

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