

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 MALDI-TOF MS test for the identification of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> and <i>X. oryzae</i> pv. <i>oryzicola</i>
Date, reference of the validation report	2023-09-27 - BAC-2022-02
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)	<i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> (XANTTO) <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (XANTOR)
Detection / identification	identification
Method(s)	MALDI-TOF
Method: MALDI-TOF	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
As or adapted from an IPPC diagnostic protocol	no
Other information	
Other details on the test	MALDI-TOF MS analysis and the creation of MSP's were performed according to the manufacturers' manual. The subtyping method was also performed according to the manufacturers' manual.
Performance Criteria :	
Organism 1.:	<i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>(XANTTO)
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	11 isolates of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>

Specificity value	100% (11 out of 11 were identified correctly)
Analytical specificity - exclusivity	
Number of non-target organisms tested	Xanthomonas citri pv. malvacearum, Xanthomonas vasicola pv. holcicola, Xanthomonas axonopodis pv. begoniae, Xanthomonas cassavae, Xanthomonas pisi, Xanthomonas citri pv. citri, Acidovorax avenae subsp. avenae , Acidovorax avenae subsp. avenae , Burkholderia gladioli, Burkholderia glumae , Burkholderia plantarii , Dickeya chrysanthemi, Pantoea agglomerans, Pseudomonas fuscovaginae , Pseudomonas syringae pv. oryzae , Pseudomonas syringae pv. syringae.
Specificity value	100 % (15 non-target isolates out of 15 were not identified as XANTTO)
Organism 2.:	Xanthomonas oryzae pv. oryzae(XANTOR)
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	18 isolates of Xanthomonas oryzae pv. oryzae were tested.
Specificity value	100% (18 out of 18 isolates were identified correctly)
Analytical specificity - exclusivity	
Number of non-target organisms tested	Xanthomonas citri pv. malvacearum, Xanthomonas vasicola pv. holcicola, Xanthomonas axonopodis pv. begoniae, Xanthomonas cassavae, Xanthomonas pisi, Xanthomonas citri pv. citri, Acidovorax avenae subsp. avenae , Acidovorax avenae subsp. avenae , Burkholderia gladioli, Burkholderia glumae , Burkholderia plantarii , Dickeya chrysanthemi, Pantoea agglomerans, Pseudomonas fuscovaginae , Pseudomonas syringae pv. oryzae , Pseudomonas syringae pv. syringae.
Specificity value	100% (15 non-target isolates out of 15 were not identified as XANTOR)
Test performance study	
Test performance study?	no
The following complementary files are available online:	• Validation MALDI-TOF MS X. oryzae

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