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.

of polygala myrtifolia Date, reference of the validation report 2019-03-13 - Implementation of sampling procedures for testing composite samples for Xylella fastidiosa. POnTE - XF-ACTORS, 2nd Joint Annual Meeting: European Research on Emergin Plant Diseases. Valencia, 23–26 october 2018. B of abstract: p. 63. Validation process according to EPPO Standard PM7/98? Is the lab accredited for this test? No Was the validated data generated in the framework of a project? Description of the test Organism(s) Xylella fastidiosa (XYLEFA) Detection / identification Method(s) Extraction Molecular Extraction DNA RNA Molecular Extraction DNA RNA (2) Molecular Extraction DNA RNA (3) Molecular real time PCR Method: Extraction Reference of the test description Other Information Other details on the test The preparation of the samples of polygala is different from the description reported in the EP DP Method: Molecular Extraction DNA RNA Reference of the test description			
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Standard PM7/98? Is the lab accredited for this test? no	Date, reference of the validation report	procedures for testing composite samples for Xylella fastidiosa. POnTE - XF-ACTORS, 2nd Joint Annual Meeting: European Research on Emerging Plant Diseases. Valencia, 23–26 october 2018. Book	
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Other information Other details on the test The preparation of the samples of polygala is different from the description reported in the EP DP Method: Molecular Extraction DNA RNA Reference of the test description	Method: Extraction		
Other details on the test The preparation of the samples of polygala is different from the description reported in the EP DP Method: Molecular Extraction DNA RNA Reference of the test description	Reference of the test description		
Method: Molecular Extraction DNA RNA Reference of the test description	Other information		
Reference of the test description	Other details on the test	different from the description reported in the EPPO	
	Method: Molecular Extraction DNA RNA		
As an adapted from an EDDO diagnostic	Reference of the test description		
protocol	As or adapted from an EPPO diagnostic protocol	yes	
EPPO Diagnostic Protocol name PM 7/024 Xylella fastidiosa (version 4)	EPPO Diagnostic Protocol name	PM 7/024 Xylella fastidiosa (version 4)	
Is the test modified compared to the no	Is the test modified compared to the	no	

reference test		
Other information		
Other details on the test	Total DNA were extracted from composite samples of polygala myrtifolia, prepared as reported in the attached additional file, by using CTAB-based protocol;	
Method: Molecular Extraction DNA RNA (2)		
Reference of the test description		
As or adapted from an EPPO diagnostic protocol	yes	
EPPO Diagnostic Protocol name	PM 7/024 Xylella fastidiosa (version 4)	
Is the test modified compared to the reference test	no	
Kit		
Is a kit used	yes	
Manufacturer name	QIAGEN	
Specify the kit used	DNeasy mericon Food Kit	
Kit used following the manufacturer's instructions?	Modified DNeasy MericonTM Food Standard ProtocolProtoco	
Other information		
Other details on the test	Total DNA were extracted from composite samples of polygala myrtifolia,prepared as reported in the attached additional file, by using: - "Modified DNeasy MericonTM Food Standard ProtocolProtocol" (Qiagen);	
Method: Molecular Extraction DNA RNA (3)		
Reference of the test description		
As or adapted from an EPPO diagnostic protocol	no	
Kit		
Is a kit used	yes	
Manufacturer name	PROMEGA	
Specify the kit used	Maxwell® RSC PureFood GMO and Authentication Kit	
Kit used following the manufacturer's instructions?		
Other information		
Other details on the test	Total DNA were extracted from composite samples of polygala myrtifolia,prepared as reported in the attached additional file, by "Maxwell® RSC PureFood GMO and Authentication Kit" protocol (Promega)	
Method: Molecular real time PCR		
Reference of the test description		

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yes		
PM 7/024 Xylella fastidiosa (version 3)		
Real-time PCR - simplex (Harper et al., 2010; erratum 2013)		
yes BSA was not included in the amplification MIX		
Performance Criteria :		
Xylella fastidiosa(XYLEFA)		
Analytical sensitivity		
2 portion of 2.5-3 cm/shoot excised from 1 plant, in 20 g of healthy shoots (pieces of 2.5-3 cm)		
<u>Diagnostic sensitivity</u>		
100%		
standard test reported by appendix 3 and 5 of PM 7/24 (3)		
Diagnostic Specificity		
100%		
standard test reported by appendix 3 and 5 of PM 7/24 (3)		
Repeatability		
100%		
Test performance study		
no		
Other information		
These validation data were obtained by IPSP-CNR in collaboration with the Department of Soil, Plant and Food Science of the University of Bari (ITAY). For any additional detail, see the attached file.		
Composite sample of polygala		

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