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.

Real-tii	ion of Erwinia amylovora in plant extract by me PCR, targeting chromosomal DNA
Data reference of the validation report 2014 0	
Date, reference of the validation report 2014-0	1-01 - none
Validation process according to EPPO yes Standard PM7/98?	
Is the lab accredited for this test? yes	
Was the validated data generated in the framework of a project?	
Description of the test	
Organism(s) Erwinia	a amylovora(ERWIAM)
Detection / identification detection	on
1	lar Extraction DNA RNA lar real time PCR
Method: Molecular Extraction DNA RNA	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	
As or adapted from an IPPC diagnostic protocol	
Kit	
Is a kit used yes	
Manufacturer name AGROE	DIAGNOSTICA
Specify the kit used PREP-G	SS kit
Kit used following the manufacturer's instructions?	
Other information	
Method: Molecular real time PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic yes	

protocol		
EPPO Diagnostic Protocol name	PM 7/020 Erwinia amylovora (version 2)	
Name of the test	Real-time PCR (Gottsberger, 2010)	
Is the test modified compared to the reference test	no	
Other information		
Are the performance characteristics included in the EPPO diagnostic protocol?	no	
Performance Criteria :		
Organism 1.:	Erwinia amylovora(ERWIAM)	
Analytical sensitivity		
What is smallest amount of target that can be detected reliably?	24 cfu/μl // 1,2*10^3/ml	
Analytical specificity - inclusivity		
Number of strains/populations of target organisms tested	126 strains: 1 strain of Erwinia amylovora CFBP 1430 + 99 strains isolated in different regions of Russian Federation + 26 strains isolated in Kazakhstan, Kyrgyzstan, Poland and Moldova	
Specificity value		
Analytical specificity - exclusivity		
Number of non-target organisms tested	92 strains including other Erwinia species	
Specificity value	No cross reaction observed	
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	for samples with level of infection 10^3 and 10^4 - 100 %, when tested with different operators	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	for samples with level of infection 10^3 and 10^4 - 100 %	
Test performance study		
Test performance study?	no	
Other information		
Any other information considered useful	Primers, probe, MasterMix and Internal control were made by Russian companies. You can find attached full validation report in Russian	
The following complementary files are available online:	 2014. Validation of Real-time PCR (according to Gottsberger, 2010) for detection of E.a. in plant extract 	

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