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	detection of Monilinia fructicola in fruits by real-time PCR
Date, reference of the validation report	2010-12-07 - MOVA no. 2006.molbio.001
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?	
Description of the test	
Organism(s)	Monilinia fructicola (MONIFC)
Detection / identification	detection
Matrix(ces) tested	Fruits fruits
Plant species tested	Prunus sp.
Method(s)	Molecular real time PCR
Method: Molecular real time PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	yes
EPPO Diagnostic Protocol name	PM 7/018 Monilinia fructicola (version 2)
Name of the test	Real-time PCR (van Brouwershaven et al.)
Is the test modified compared to the reference test	no
Other information	
Other details on the test	IR van Brouwershaven, ML Bruil, GCM van Leeuwen, LFF Kox 2010. A real-time (Taqman) PCR assay to differentiate Monilinia fructicola from other brown rot fungi of fruit crops. Plant Pathology 59, 548-555
Are the performance characteristics included in the EPPO diagnostic protocol?	**no**

Performance Criteria :	
Organism 1.:	**Monilinia fructicola(MONIFC)**
Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	0.6 pg of Monilinia spp. DNA
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	12 isolates of Monilinia fructicola
Specificity value	
Analytical specificity - exclusivity	
Number of non-target organisms tested	16 non-target orgaisms (incl. three other Monilinia spp)
Specificity value	no cross reaction observed
Test performance study	
Test performance study?	no

Creation date: 2012-11-28 00:00:00 - Last update: 2021-05-05 22:49:46