## EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES (11-17239)

## 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.

Target Organism	Erwinia amylovora		
Short description	Lateral flow devices for fire blight testing		
Laboratory contact details	AGES Institute of Sustainable Plant Production Spargelfeldstrasse 191, 1220 Vienna, Austria		
Date and reference of the validation report	2012-12-18 -		
Validation process according to EPPO Standard PM 7/98:	Yes		
Reference of the test description	0 PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora		
Is the test the same as described in the EPPO DP?	Yes		
Is the lab accredited for this test?	No		
Plant species tested (if relevant)			
Matrices tested (if relevant)	Tested on pure bacterial cultures		
List of methods used			
Method for extraction / isolation / baiting of target organism from matrix			
Molecular methods, e.g. hybridization, PCR and real time PCR			
Serological methods: IF, ELISA, Direct Tissue Blot Immuno Assay	Х	Serological lateral flow device tests AgriStrip, Pocket Diagnostics	
Plating methods: selective isolation			
Bioassay methods: selective enrichment in host plants, baiting, plant test and grafting.			
Pathogenicity test			
Fingerprint methods: protein profiling, fatty acid profiling & DNA profiling			
Morphological and morphometrical methods intended for identification			

Biochemical methods: e.g. enzyme electrophoresis, protein profiling				
Other				
Analytical sensitivity (= limit of detection)				
What is smallest amount of target that can be detected reliably?				
Diagnostic sensitivity				
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	see PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora			
Specify the standard test	see PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora			
Analytical specificity				
Specificity value				
Number of strains/populations of target organisms tested	Is routinely being used for testing isolated pure cultures of Erwinia amylovora isolates			
Number of non-target organisms tested	14			
Cross reacts with (specify the species)	Erwinia uzenensis, Erwinia tasmaniensis, Erwinia piriflorinigrans, Erwinia pyrifoliae			
Diagnostic Specificity				
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	see PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora			
Specify the standard test	see PM 7/ amylovora	020(2) - EPPO Diagnostic Protocol for Erwinia		
Reproducibility				
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	see PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora			
Repeatability				
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	see PM 7/020(2) - EPPO Diagnostic Protocol for Erwinia amylovora			
Test performance study				
Test performance study?	No			
Include brief details of the test performance study and its output.It available, provide a link to published article/report				
Other information				
Any other information considered useful				

e.g. robustness, ease of performing the test, etc.	
The following complementary files are available online:	Table on cross reaction of Erwinia amylovora LFDs