

**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.

<b>Laboratory contact details</b>	Bacteriology. Instituto Valenciano de Investigaciones Agrarias CV-315, km. 10.7, 46113 Moncada, Spain
<b>Short description of the test</b>	Detection of <i>Erwinia amylovora</i> from plant material by Commercial lateral flow device Pocket Diagnostics
<b>Date, reference of the validation report</b>	2012-03-01 - Not specified
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Erwinia amylovora</i> (ERWIAM)
<b>Detection / identification</b>	detection
<b>Matrix(ces) tested</b>	Leaves, Shoots Shoots, leaves
<b>Plant species tested</b>	Rosaceae
<b>Method(s)</b>	Serological Lateral Flow Device
<b>Method: Serological Lateral Flow Device</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>EPPO Diagnostic Protocol name</b>	PM 7/020 <i>Erwinia amylovora</i> (version 2)
<b>Name of the test</b>	Lateral flow devices
<b>Is the test modified compared to the reference test</b>	no
<b>Kit</b>	
<b>Is a kit used</b>	yes
<b>Manufacturer name</b>	POCKET DIAGNOSTIC
<b>Specify the kit used</b>	Pocket Diagnostic® rapid plant disease tests - <i>Erwinia amylovora</i>
<b>Kit used following the manufacturer's instructions?</b>	

<b>Other information</b>	
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	yes
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Erwinia amylovora(ERWIAM)</b>
<b>Analytical sensitivity</b>	
<b>What is the smallest amount of target that can be detected reliably?</b>	10 <sup>5</sup> -10 <sup>6</sup> CFU/mL plant extract
<b>Diagnostic sensitivity</b>	
<b>Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98</b>	Proportion of true positives/total number of samples: 0.13 (in samples from 1 to 10 <sup>6</sup> CFU/mL and healthy samples in ring test 2010)
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	Proportion of true negatives/total number of samples: 0.93 (in samples from 1 to 10 <sup>6</sup> CFU/mL and healthy samples in ring test 2010)
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	94% when tested with different operators, in IVIA assays
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	96% In IVIA assays
<b>Test performance study</b>	
<b>Test performance study?</b>	yes
<b>Brief details of the test performance study and its output.It available, link to published article/report</b>	Yes (14 laboratories from Europe, Morocco, USA and New Zealand) analysed 12 samples each (from 1 to 10 <sup>6</sup> CFU/mL plant extract and healthy samples). Details about ring test protocol available.
<b>Other information</b>	
<b>Any other information considered useful</b>	Recommended only for symptomatic samples for its low sensitivity but high specificity.

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