

**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>	National Reference Centre, National Plant Protection Organization P.O. Box 9102, 6700 HC Wageningen, Netherlands
<b>Short description of the test</b>	Detection of <i>R. solanacearum</i> by IF in <i>Pelargonium</i> sp.
<b>Date, reference of the validation report</b>	2011-10-13 - BAC-2010-01
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	yes
<b>Was the validated data generated in the framework of a project?</b>	
<b>If yes, please specify</b>	
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Ralstonia solanacearum</i> species complex(RALSSO)
<b>Detection / identification</b>	detection
<b>Matrix(ces) tested</b>	Shoots From <i>P. zonale</i> stems
<b>Plant species tested</b>	<i>Pelargonium zonale</i>
<b>Method(s)</b>	Serological IF
<b>Method: Serological IF</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	
<b>EPPO Diagnostic Protocol name</b>	PM 7/097 Indirect immunofluorescence test for plant pathogenic bacteria (version 1)
<b>Name of the test</b>	
<b>As or adapted from an IPPC diagnostic protocol</b>	
<b>Is the test modified compared to the reference test</b>	
<b>Kit</b>	

Is a kit used	no
<b>Other information</b>	
Reaction type	
Other details on the test	IF using the antiserum Loewe 073566-C.4732
Are the performance characteristics included in the EPPO diagnostic protocol?	
<b>Performance Criteria :</b>	
Organism 1.:	<b>Ralstonia solanacearum species complex(RALSSO)</b>
<b>Analytical sensitivity</b>	
What is smallest amount of target that can be detected reliably?	5.9 x 10 <sup>3</sup> cfu/ml for P. zonale extracts
<b>Diagnostic sensitivity</b>	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100% (12 out 12)
Standard test(s)	Fatty acid analysis and conventional PCR
<b>Analytical specificity - inclusivity</b>	
Number of strains/populations of target organisms tested	32 (Table 2 and Table 4)
Specificity value	100%
<b>Analytical specificity - exclusivity</b>	
Number of non-target organisms tested	20 (Table 4)
Specificity value	100% - no cross reaction
Cross reacts with	
<b>Diagnostic Specificity</b>	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100% (20 out 20)
Specify the test(s)	Fatty acid analysis and conventional PCR
<b>Reproducibility</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
<b>Repeatability</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
<b>Test performance study</b>	
Test performance study?	no
Brief details of the test performance study and its output.It available, link to published article/report	

Other information	
<b>Any other information considered useful</b>	Selectivity studied based on three cultivars, namely Pelargonium zonale guido, Pelargonium peltatum balkon rood en Pelargonium grandiflorum cyntia. No matrix effect found
The following complementary files are available online:	<ul style="list-style-type: none"><li>• <a href="#">Validation sheet IF for detection of R. solanacearum in Pelargonium sp. extracts</a></li></ul>

Creation date: 2016-09-30 00:00:00 - Last update: 2021-09-07 14:14:38