

**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>	Netherlands Institute for Vectors, Invasive plants and Plant health 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>Description of the test</b>	
<b>Organism(s)</b>	<i>Ralstonia solanacearum</i> species complex (RALSSO)
<b>Detection / identification</b>	detection
<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>EPPO Diagnostic Protocol name</b>	PM 7/097 Indirect immunofluorescence test for plant pathogenic bacteria (version 1)
<b>Kit</b>	
<b>Is a kit used</b>	no
<b>Other information</b>	
<b>Other details on the test</b>	IF using the antiserum Loewe 073566-C.4732
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Ralstonia solanacearum</i> species complex(RALSSO)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	5.9 x 10 <sup>3</sup> cfu/ml for <i>P. zonale</i> extracts
<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>	100% (12 out 12)
<b>Standard test(s)</b>	Fatty acid analysis and conventional PCR
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	32 (Table 2 and Table 4)
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	20 (Table 4)
<b>Specificity value</b>	100% - no cross reaction
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	100% (20 out 20)
<b>Specify the test(s)</b>	Fatty acid analysis and conventional PCR
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b>Test performance study</b>	
<b>Test performance study?</b>	no
<b>Other information</b>	
<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>

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