

**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>	identification of <i>Xanthomonas fragariae</i> by Serological IF in Pure culture
<b>Date, reference of the validation report</b>	2017-10-18 - BAC-2017-001 Validatie van IF voor identificatie van <i>X. axonopodis</i> pv. <i>dieffenbachiae</i> en <i>X. fragariae</i>
<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>	no
<b>If yes, please specify</b>	
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Xanthomonas fragariae</i> (XANTFR)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Pure culture
<b>Plant species tested</b>	
<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>	no
<b>EPPO Diagnostic Protocol name</b>	PM 7/065 <i>Xanthomonas fragariae</i> (version 1)
<b>Name of the test</b>	IF - EU (1998)
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Is the test modified compared to the reference test</b>	no
<b>Kit</b>	

Is a kit used	no
<b>Other information</b>	
Reaction type	
Other details on the test	Anti serum IPO 9534 BCD1 was used.
Are the performance characteristics included in the EPPO diagnostic protocol?	
<b>Performance Criteria :</b>	
Organism 1.:	<b>Xanthomonas fragariae(XANTFR)</b>
<b>Analytical sensitivity</b>	
What is smallest amount of target that can be detected reliably?	
<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	
Standard test(s)	
<b>Analytical specificity - inclusivity</b>	
Number of strains/populations of target organisms tested	X. fragariae isolates of NPPO-NL were used: PD 885, PD 6998-7021, PD 6824, PD 6826, PD 6896, PD 6898, PD 6901, PD 6908, PD 6911, PD 6942, PD 6944, PD 6924, PD6933, PD 6254, PD 6978-6981, PD 2662, PD 2664, PD 2895, PD 3161, PD 3163, PD 4553, PD 4585, PD 5626, k3366, k3488, k3496, k3527, k3654, k3679, k3688, k3692, k3707. k3710, 3741, k3765, k3841.
Specificity value	100%
<b>Analytical specificity - exclusivity</b>	
Number of non-target organisms tested	Isolates of NPPO-NL were used: X. a. fragariae PD 2694, PD 2697, PD 2806, PD 3164, X. c. dieffenbachiae PD 4238, X. c. phaseoli PD 4544.
Specificity value	83%
Cross reacts with	Xanthomonas arboricola pv. fragariae
<b>Diagnostic Specificity</b>	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	
Specify the test(s)	
<b>Reproducibility</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	
<b>Repeatability</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	

Test performance study	
Test performance study?	no
Brief details of the test performance study and its output. It available, link to published article/report	
Other information	
Any other information considered useful	
The following complementary files are available online:	<ul style="list-style-type: none"> <li>• <a href="#">BAC-2017-001 Validatie van IF voor identificatie van X. c. dieffenbachiae en X. fragariae</a></li> </ul>

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