

**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>	Anses Plant Health Laboratory - Pests and Tropical Pathogens Unit Pôle de Protection des Plantes, 7 Chemin de l'IRAT, 97410 Saint Pierre, France
<b>Short description of the test</b>	Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular real time PCR in Leaves, Fruits
<b>Date, reference of the validation report</b>	2021-08-05 - XCC1
<b>Link to other validation data</b>	- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular real time PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular real time PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits - XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by Molecular Conventional PCR in Leaves, Fruits
<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>	Other_project
<b>If yes, please specify</b>	VALITEST
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Xanthomonas citri</i> pv. <i>citri</i> (XANTCI)
<b>Detection / identification</b>	detection
<b>Method(s)</b>	Molecular real time PCR
<b>Method: Molecular real time PCR</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no

<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	yes
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	Mavrodieva et al., 2004 (VM3/4, SYBR Green)
<b>Is the test modified compared to the reference test</b>	no
<b>Kit</b>	
<b>Is a kit used</b>	no
<b>Other information</b>	
<b>Reaction type</b>	Simplex
<b>Other details on the test</b>	the test does not allow to distinguish <i>Xanthomonas citri</i> pv. <i>citri</i> and <i>Xanthomonas citri</i> pv. <i>aurantifolii</i>
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Xanthomonas citri</i> pv. <i>citri</i>(XANTCI)</b>
<b>Analytical sensitivity</b>	
<b>What is smallest amount of target that can be detected reliably?</b>	POD of 0.95 : 7500 CFU.ml-1
<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>	84%
<b>Standard test(s)</b>	This a comparison with samples of known status
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	82
<b>Specificity value</b>	100%
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	46
<b>Specificity value</b>	87%
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	47%
<b>Specify the test(s)</b>	This a comparison with samples of known status
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	87%
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	92%

Test performance study	
Test performance study?	yes
Brief details of the test performance study and its output.It available, link to published article/report	Test performance study organized in the framework of the VALITEST project involving 17 laboratories from 14 countries
The following complementary files are available online:	<ul style="list-style-type: none"> <li>• <a href="#">VALITEST TPS XCC REPORT_2021_08_05_v2</a></li> </ul>

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