

**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.

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| <b>Laboratory contact details</b>                                      | Anses Plant Health Laboratory - Pests and Tropical Pathogens Unit<br>Pôle de Protection des Plantes, 7 Chemin de l'IRAT,<br>97410 Saint Pierre, France  |
| <b>Short description of the test</b>                                   | Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular Conventional 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<br>Molecular Conventional PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular Conventional PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular Conventional PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular real time PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular real time PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular real time PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>Molecular Conventional PCR in Leaves, Fruits<br>- XCC1 Detection of <i>Xanthomonas citri</i> pv. <i>citri</i> by<br>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 Conventional PCR  |
| <b>Method: Molecular Conventional PCR</b>                              |   |
| <b>Reference of the test description</b>                               |   |
| <b>As or adapted from an EPPO diagnostic protocol</b>                  | no  |

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| <b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>                                  | no   |
| <b>As or adapted from an IPPC diagnostic protocol</b>  | no   |
| <b>Reference of the test</b>   | Park et al., 2006 (XACF/XACR)                  |
| <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>Performance Criteria :</b>  |  |
| <b>Organism 1.:</b>  | <b>Xanthomonas citri pv. citri(XANTCI)</b>     |
| <b>Analytical sensitivity</b>  |  |
| <b>What is smallest amount of target that can be detected reliably?</b>  | POD of 0.95 : 19000 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> | 58%  |
| <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>   | 91%  |
| <b>Diagnostic Specificity</b>  |  |
| <b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>        | 76%  |
| <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>   | 85%  |
| <b>Repeatability</b>   |  |
| <b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>   | 91%  |
| <b>Test performance study</b>  |  |
| <b>Test performance study?</b>   | yes  |

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| <b>Brief details of the test performance study and its output. It available, link to published article/report</b> | Test performance study organized in the framework of the VALITEST project involving 16 laboratories from 13 countries |
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| 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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