**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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| **Laboratory contact details** | National Reference Centre, National Plant Protection Organization<br>P.O. Box 9102, 6700 HC Wageningen, Netherlands |
| **Short description of the test** | identification of Xanthomonas axonopodis pv. dieffenbachiae by Serological IF in Pure culture |
| **Date, reference of the validation report** | 2017-10-18 - BAC-2017-001 Validatie van IF voor identificatie van X. axonopodis pv. dieffenbachiae en X. fragariae |
| **Validation process according to EPPO Standard PM7/98?** | yes |
| **Is the lab accredited for this test?** | yes |
| **Was the validated data generated in the framework of a project?** | no |
| **If yes, please specify** | |
| | |
| **Description of the test** | |
| | |
| **Organism(s)** | Xanthomonas axonopodis pv. dieffenbachiae(XANTDF) |
| **Detection / identification** | identification |
| **Matrix(ces) tested** | Pure culture |
| **Plant species tested** | |
| **Method(s)** | Serological IF |
| **Method: Serological IF** | |
| ***Reference of the test description*** | |
| **As or adapted from an EPPO diagnostic protocol** | yes |
| **New test being considered for inclusion in the next version of the EPPO diagnostic protocol?** | no |
| **EPPO Diagnostic Protocol name** | PM 7/023 Xanthomonas axonopodis pv. dieffenbachiae (version 2) |
| **Name of the test** | Immunofluorescence test |
| **As or adapted from an IPPC diagnostic protocol** | no |
| **Is the test modified compared to the reference test** | |

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| ***Kit*** | |
| **Is a kit used** | no |
| ***Other information*** | |
| **Reaction type** | |
| **Other details on the test** | Anti serum IPO 9323 BCD1/1a was used. |
| **Are the performance characteristics included in the EPPO diagnostic protocol?** | |
| **Performance Criteria :** | |
| **Organism 1.:** | **Xanthomonas axonopodis pv. dieffenbachiae(XANTDF)** |
| **Analytical sensitivity** | |
| **What is smallest amount of target that can be detected reliably?** | |
| **Diagnostic sensitivity** | |
| **Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98** | |
| **Standard test(s)** | |
| **Analytical specificity - inclusivity** | |
| **Number of strains/populations of target organisms tested** | X. c. dieffenbachiae solates from NPPO-NL were used: PD 992, PD 1483, PD 2180, PD 2628, PD 3185, PD 3186, PD 3563, PD 3566, PD 2170, PD 3647, PD 4013, PD 4100, PD 4238, PD 4334, PD 5484, PD 5504, PD 5505, PD 5538, k3605. |
| **Specificity value** | 100% |
| **Analytical specificity - exclusivity** | |
| **Number of non-target organisms tested** | Isolates from NPPO-NL were used: X. c. hyacinthi PD 280, X. c. manihotis PD 2525, X. c. pelargonii PD 698 and PD 1698, X. c. poinsettiicola PD 997, X. c. vesicatoria PD 512, Acidovorax sp. PD 2910 |
| **Specificity value** | 100% |
| **Cross reacts with** | |
| **Diagnostic Specificity** | |
| **Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test** | |
| **Specify the test(s)** | |
| **Reproducibility** | |
| **Provide the calculated % of agreement for a given level of the pest (see PM 7/98)** | |
| **Repeatability** | |
| **Provide the calculated % of agreement for a given level of the pest (see PM 7/98)** | |

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| **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** | |
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| The following complementary files are available online: | • BAC-2017-001 Validatie van IF voor identificatie van X. c. dieffenbachiae en X. fragariae |

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