

**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>  | Netherlands Institute for Vectors, Invasive plants and Plant health<br>P.O. Box 9102, 6700 HC Wageningen, Netherlands   |
| <b>Short description of the test</b>   | detection of <i>Monilinia fructicola</i> in fruits by real-time PCR   |
| <b>Date, reference of the validation report</b>                                      | 2010-12-07 - MOVA no. 2006.molbio.001   |
| <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>               |   |
| <b>Description of the test</b>   |   |
| <b>Organism(s)</b>   | <i>Monilinia fructicola</i> (MONIFC)  |
| <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>                                | yes   |
| <b>EPPO Diagnostic Protocol name</b>   | PM 7/018 <i>Monilinia fructicola</i> (version 2)  |
| <b>Name of the test</b>  | Real-time PCR (van Brouwershaven et al.)  |
| <b>Is the test modified compared to the reference test</b>                           | no  |
| <b>Other information</b>   |   |
| <b>Other details on the test</b>   | IR van Brouwershaven, ML Bruil, GCM van Leeuwen, LFF Kox 2010. A real-time (Taqman) PCR assay to differentiate <i>Monilinia fructicola</i> from other brown rot fungi of fruit crops. Plant Pathology 59, 548-555 |
| <b>Are the performance characteristics included in the EPPO diagnostic protocol?</b> | no  |
| <b>Performance Criteria :</b>  |   |
| <b>Organism 1.:</b>  | <b><i>Monilinia fructicola</i>(MONIFC)</b>  |

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| <b>Analytical sensitivity</b>   |  |
| <b>What is smallest amount of target that can be detected reliably?</b> | 0.6 pg of Monilinia spp. DNA                             |
| <b>Analytical specificity - inclusivity</b>                             |  |
| <b>Number of strains/populations of target organisms tested</b>         | 12 isolates of Monilinia fructicola                      |
| <b>Specificity value</b>  |  |
| <b>Analytical specificity - exclusivity</b>                             |  |
| <b>Number of non-target organisms tested</b>                            | 16 non-target orgaisms (incl. three other Monilinia spp) |
| <b>Specificity value</b>  | no cross reaction observed                               |
| <b>Test performance study</b>   |  |
| <b>Test performance study?</b>  | no   |

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