

**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>	AGROINNOVA DIAGNOSTICS Largo Paolo Braccini 2, 10095 Grugliasco, Italy
<b>Short description of the test</b>	Detection and identification of <i>Cryphonectria parasitica</i> by Molecular real time PCR (Rubio et al. 2017) in pure culture
<b>Date, reference of the validation report</b>	2021-04-30 - AGRO-PCR real time 1- C parasitica
<b>Link to other validation data</b>	- AGRO-PCR real time 2- C parasitica Detection and identification of <i>Cryphonectria parasitica</i> by Molecular real time PCR (Chandelier 2019) in Specimen
<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>	no
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Cryphonectria parasitica</i> (ENDOPA)
<b>Detection / identification</b>	detection and identification
<b>Matrix(ces) tested</b>	Pure culture 8 DNA extracts (from pure fungal cultures) including: -2 non-target samples -6 target samples (3 isolates x 2 dilutions - undiluted and 20 times diluted DNA extract).
<b>Plant species tested</b>	<i>Castanea sativa</i>
<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>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	Rubio S., Barnes A., Webb K., Hodgetts J. 2017. A real-time PCR assay for improved rapid. specific detection of <i>Cryphonectria parasitica</i> . <i>Annals of Applied Biology</i> . 171: 52-61.
<b>Is the test modified compared to the</b>	no

reference test	
<b>Kit</b>	
Is a kit used	no
<b>Other information</b>	
Reaction type	Simplex
Are the performance characteristics included in the EPPO diagnostic protocol?	no
<b>Performance Criteria :</b>	
Organism 1.:	<b>Cryphonectria parasitica(ENDOPA)</b>
<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	91.7 %
Standard test(s)	comparison with samples of known status
<b>Diagnostic Specificity</b>	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	88.9 %
Specify the test(s)	comparison with samples of known status
<b>Reproducibility</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	concordance: 82.6 %
<b>Repeatability</b>	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	accordance: 98.6 %
<b>Test performance study</b>	
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 frame of the project VALITEST n°773139 The results of 9 laboratories were considered for the analysis. Only laboratories obtaining correct results for the PAC were included in this analysis.
The following complementary files are available online:	<ul style="list-style-type: none"> <li>• <a href="#">AGRO Real time PCRs 1 &amp; 2 C parasitica</a></li> </ul>

Creation date: 2024-03-21 16:29:59 - Last update: 2024-06-07 09:52:19