

**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, Italia
<b>Short description of the test</b>	Detection and identification of <i>Cryphonectria parasitica</i> by Molecular real time PCR (Chandelier 2019) in Specimen
<b>Date, reference of the validation report</b>	2021-04-30 - AGRO-PCR real time 2- C parasitica
<b>Link to other validation data</b>	- AGRO-PCR real time 1- C parasitica Detection and identification of <i>Cryphonectria parasitica</i> by Molecular real time PCR (Rubio et al. 2017) in pure culture
<b>Validation process according to EPPO Standard PM7/98?</b>	no
<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>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>	Chandelier A., Massot M., Fabreguettes O., Gischer F., Teng, F., Robin C. (2019). Early detection of <i>Cryphonectria parasitica</i> by real-time PCR. <i>European Journal of Plant Pathology</i> 153, 29-46.
<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>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	<b>no</b>
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Cryphonectria parasitica(ENDOPA)</b>
<b><u>Diagnostic sensitivity</u></b>	
<b>Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98</b>	92.7 %
<b>Standard test(s)</b>	comparison with sample of known status (DNA samples)
<b><u>Diagnostic Specificity</u></b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	93.8 %
<b>Specify the test(s)</b>	comparison with sample of known status (DNA samples)
<b><u>Reproducibility</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	concordance: 86.8 %
<b><u>Repeatability</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	accordance: 98.4 %
<b><u>Test performance study</u></b>	
<b>Test performance study?</b>	yes
<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 frame of the project VALITEST n°773139 The results of 8 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>

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