

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.

Laboratory contact details	AGROINNOVA DIAGNOSTICS Largo Paolo Braccini 2, 10095 Grugliasco, Italy
Short description of the test	Detection and identification of <i>Cryphonectria parasitica</i> by Molecular real time PCR (Chandelier 2019) in Specimen
Date, reference of the validation report	2021-04-30 - AGRO-PCR real time 2- C parasitica
Link to other validation data	- 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
Validation process according to EPPO Standard PM7/98?	no
Is the lab accredited for this test?	no
Was the validated data generated in the framework of a project?	no
Description of the test	
Organism(s)	<i>Cryphonectria parasitica</i> (ENDOPA)
Detection / identification	detection and identification
Matrix(ces) tested	Pure culture 8 DNA extracts (from pure fungal cultures) including: -2 non-target samples -6 target samples (3 isolates x 2 dilutions).
Plant species tested	<i>Castanea sativa</i>
Method(s)	Molecular real time PCR
Method: Molecular real time PCR	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
As or adapted from an IPPC diagnostic protocol	no
Reference of the test	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.
Is the test modified compared to the reference test	no

Kit	
Is a kit used	no
Other information	
Reaction type	Simplex
Are the performance characteristics included in the EPPO diagnostic protocol?	no
Performance Criteria :	
Organism 1.:	Cryphonectria parasitica(ENDOPA)
Diagnostic sensitivity	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	92.7 %
Standard test(s)	comparison with sample of known status (DNA samples)
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	93.8 %
Specify the test(s)	comparison with sample of known status (DNA samples)
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	concordance: 86.8 %
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	accordance: 98.4 %
Test performance study	
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 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"> • AGRO Real time PCRs 1 & 2 C parasitica

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