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	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France
Short description of the test	Method for the Extraction of all stages of Nacobbus aberrans, from Potato Peels by Enzymatic Digestion
Date, reference of the validation report	2025-12-12 - Method for the extraction of Nacobbus aberrans from potato peels by enzymatic digestion (Version 1)
Validation process according to EPPO Standard PM7/98?	no
Is the lab accredited for this test?	yes
Was the validated data generated in the framework of a project?	EURL
If yes, please specify	EU-funded project EURLs-EURCs 2025-2027. Grant number: 101202127
Description of the test	
Organism(s)	Nacobbus aberrans sensu lato (NACOBA)
Detection / identification	detection
Matrix(ces) tested	Tubers Potato peels. Potato variety Gwenne
Plant species tested	Solanum tuberosum
Method(s)	Extraction
Method: Extraction	
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?	yes
EPPO Diagnostic Protocol name	PM 7/119 Nematode extraction (version 1)
Name of the test	Enzymatic digestion of roots and potato peels (from plant material and vectors)
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the reference test	no

Other information	
Other details on the test	This test is already described in the PM 7/119 (Version 1) but only for Meloidogyne spp. Here the method was tested on Nacobbus aberrans. The enzymes used in this validation were at a ratio of 30% Celluclast, 15% Pectinex, and 55% water. Incubation was at room temperature for at least 12 hours at 100rpm on an orbital shaker.
Performance Criteria :	
Organism 1.:	**Nacobbus aberrans sensu lato(NACOBA)**
Diagnostic sensitivity	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100%
Standard test(s)	The target species was detected in all inoculated samples.
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	Nacobbus aberrans s.l. (internal population number: 1-1088)
Specificity value	
Test performance study	
Test performance study?	no
Other information	
Any other information considered useful	The report is not publicly available, but can be provided on request (eurl.nematodes@anses.fr). It is resticted to those registered to the EURL website (see link below): https://sitesv2.anses.fr/en/minisite/plant-parasitic-nematodes/method-and-test-validation-reports . The report has been published to Zenodo with restricted access with the following citation: European Union Reference Laboratory for Plant Parasitic Nematodes. (2025). Method for the extraction of Nacobbus aberrans from potato peels by enzymatic digestion (Version 1). Zenodo. https://doi.org/10.5281/zenodo.18174777

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