## EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES (11-17239)

## 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.

Target Organism	Nacobbus aberrans		
Short description	PCR detection of Nacobbus aberrans		
Laboratory contact details	Anses Plant Health Laboratory - Nematology Unit Domaine de la Motte au Viconte BP 35327, 35653 Le Rheu, France		
Date and reference of the validation report	2009-01-19 - 09/07		
Validation process according to EPPO Standard PM 7/98:	No		
Reference of the test description	0 Atkins et al. 2005. A molecular diagnosis method for detecting Nacobbus in soil and in potato tubers. Nematology 7(2), 193-202.		
Is the test the same as described in the EPPO DP?	No Not in EPPO DP.		
Is the lab accredited for this test?	No		
Plant species tested (if relevant)	Not relevant.		
Matrices tested (if relevant)	Isolated nematodes		
List of methods used			
Method for extraction / isolation / baiting of target organism from matrix			
Molecular methods, e.g. hybridization, PCR and real time PCR	Х	Species specific conventional PCR	
Serological methods: IF, ELISA, Direct Tissue Blot Immuno Assay			
Plating methods: selective isolation			
Bioassay methods: selective enrichment in host plants, baiting, plant test and grafting.			
Pathogenicity test			
Fingerprint methods: protein profiling, fatty acid profiling & DNA profiling			

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Morphological and morphometrical methods intended for identification		
Biochemical methods: e.g. enzyme electrophoresis, protein profiling		
Other		
Analytical sensitivity (= limit of deter	tion)	
What is smallest amount of target that can be detected reliably?	Not evaluated	
Diagnostic sensitivity		
Proportion of infected/infested samples tested positive compared to results from the standard test , see appendix 2 of PM 7/98	Not evaluated	
Specify the standard test	Not releva	ant
Analytical specificity		
Specificity value	70%	
Number of strains/populations of target organisms tested	8	
Number of non-target organisms tested	10	
Cross reacts with (specify the species)	Pratylenchus crenatus, Globodera rostochiensis, Hirschmaniella sp.	
Diagnostic Specificity	•	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test		
Specify the standard test		
Reproducibility		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	Not evalu	ated
<u>Repeatability</u>	-	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	Not evalu	ated
Test performance study		
Test performance study?	No	
Include brief details of the test performance study and its output.It available, provide a link to published article/report		
Other information		
Any other information considered	The speci	ficity evaluation was conducted to define if other

useful e.g. robustness, ease of performing the test, etc.	performance criteria should be evaluated. As the specificity is not good enough, the other criteria were not evaluated.	
The following complementary files are available online:	<ul> <li>Validation data populations set Nacobbus aberrans <u>Atkins</u></li> </ul>	