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	Plum pox virus	
Short description	detection of plum pox virus using DAS-ELISA	
Laboratory contact details	Central Institute for supervising and testing in agriculture Slechtitelu 773/23, 779 00 Olomouc, Czech Republic	
Date and reference of the validation report	2018-05-21 - F-281201-28	
Validation process according to EPPO Standard PM 7/98:	No	
Reference of the test description	N/R	
Is the test the same as described in the EPPO DP?		
Is the lab accredited for this test?	Yes	
Plant species tested (if relevant)	Prunus spp.	
Matrices tested (if relevant)	leaves	
List of methods used		
Method for extraction / isolation / baiting of target organism from matrix		
Molecular methods, e.g. hybridization, PCR and real time PCR		
Serological methods: IF, ELISA, Direct Tissue Blot Immuno Assay	X	DAS-ELISA, comparison extraction buffer #13(Bioreba) and extraction buffer #2
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		
Morphological and morphometrical methods intended for identification		

Biochemical methods: e.g. enzyme electrophoresis, protein profiling		
Other		
Analytical sensitivity (= limit of detection)		
What is smallest amount of target that can be detected reliably?	Dilution 1000x for the two extraction buffers	
Diagnostic sensitivity		
Proportion of infected/infested samples tested positive compared to results from the standard test , see appendix 2 of PM 7/98		
Specify the standard test		
Analytical specificity		
Specificity value		
Number of strains/populations of target organisms tested	2 PPV (Wz22.3.14/23.8.17, Wz20.4.14/2.3.18)	
Number of non-target organisms tested	3 PDV, PNRSV, CLRV	
Cross reacts with (specify the species)	For the two extraction buffers: Specific reaction for PPV, antiserum does not react with PDV, PNRSV, CLRV	
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)	For the two extraction buffers: 100%	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	For the two extraction buffers: 100%	
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 useful **e.g. robustness, ease of performing the test, etc.**		

The following complementary files are available online:	• Validation report PPV ELISA