

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	Walloon Agricultural Research Centre (CRA-W) Département Sciences du Vivant Unité Santé des plantes et forêts Bâtiment Marchal Rue de Liroux, 4, 5030 Gembloux, Belgium
Short description of the test	Detection of beet poleroviruses by ELISA
Date, reference of the validation report	2025-11-13 - Detection beet polerovirus by ELISA
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?	Other_project
If yes, please specify	VIROBETT project (PRW 204/3, grant -D65-1429)
Description of the test	
Organism(s)	Polerovirus BWYV (BWYV00)
Detection / identification	detection
Matrix(ces) tested	Leaves
Plant species tested	Beta vulgaris, Capsella bursa-pastoris, Spinacia oleracea
Method(s)	Serological ELISA
Method: Serological ELISA	
Reference of the test description	
As or adapted from an EPPO diagnostic protocol	no
New test being considered for inclusion in the next version of the EPPO diagnostic protocol?	no
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the reference test	no
Kit	
Is a kit used	yes
Manufacturer name	DSMZ

Specify the kit used	BWYV TAS-ELISA (RT-0049) kit
Kit used following the manufacturer's instructions?	yes
Other information	
Performance Criteria :	
Organism 1.:	Polerovirus BWYV(BWYV00)
Analytical sensitivity	
What is the smallest amount of target that can be detected reliably?	undiluted starting material infected with BWYV isolate P6-6D-W11_BWYV
Diagnostic sensitivity	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100%
Analytical specificity - inclusivity	
Number of strains/populations of target organisms tested	BWYV, BChV, BMYV and TuYV
Specificity value	100%
Analytical specificity - exclusivity	
Number of non-target organisms tested	PLRV, CYDV-RPV, BYV and BtMV
Specificity value	100%
Cross-reacts with	Beet chlorosis virus Beet mild yellowing virus Turnip yellows virus
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100%
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	100%
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	not tested
Test performance study	
Test performance study?	no

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