

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	Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands
Short description of the test	Validation of the pathogenicity test of <i>Pantoea stewartii</i> subsp. <i>stewartii</i> in sweet corn
Date, reference of the validation report	2022-04-06 - BAC-2020-13
Validation process according to EPPO Standard PM7/98?	yes
Is the lab accredited for this test?	yes
Was the validated data generated in the framework of a project?	Other_project
If yes, please specify	Dutch phytosanitary project
Description of the test	
Organism(s)	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> (ERWIST)
Detection / identification	identification
Method(s)	Pathogenicity
Method: Pathogenicity	
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?	no
EPPO Diagnostic Protocol name	PM 7/060 <i>Pantoea stewartii</i> (version 2)
Name of the test	Pathogenecity test
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the reference test	no
Other information	
Performance Criteria :	
Organism 1.:	<i>Pantoea stewartii</i> subsp. <i>stewartii</i>(ERWIST)
Analytical specificity - inclusivity	

Number of strains/populations of target organisms tested	Seven Pss isolates
Specificity value	One isolate out of seven did not cause symptoms on Tasty Sweet F1 cultivar of sweet corn
Analytical specificity - exclusivity	
Number of non-target organisms tested	P. stewartii subsp. indologenes (2 isolates) P. ananatis (2 isolates)
Specificity value	One P. stewartii subsp. indologenes isolate caused symptoms on Tasty Sweet F1 cultivar of sweet corn
Cross reacts with	Pantoea stewartii subsp. indologenes
Diagnostic Specificity	
Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test	100% The phosphate buffer that was used as a negative control did not cause symptoms
Specify the test(s)	Phosphate buffer was used as a negative control
Reproducibility	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	Two operators performed the test, the symptoms were similar
Repeatability	
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	All replicates showed similar symptoms
Test performance study	
Test performance study?	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> • Validation pathogenicity test Pss

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