

**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.

<b>Laboratory contact details</b>	Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands
<b>Short description of the test</b>	Validation of the pathogenicity test of <i>Pantoea stewartii</i> subsp. <i>stewartii</i> in sweet corn
<b>Date, reference of the validation report</b>	2022-04-06 - BAC-2020-13
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	yes
<b>Was the validated data generated in the framework of a project?</b>	Other_project
<b>If yes, please specify</b>	Dutch phytosanitary project
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> (ERWIST)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Pure culture Tasty Sweet F1 and Jubilee cultivars of sweet corn
<b>Plant species tested</b>	<i>Zea mays</i>
<b>Method(s)</b>	Pathogenicity
<b>Method: Pathogenicity</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	yes
<b>New test being considered for inclusion in the next version of the EPPO diagnostic protocol?</b>	no
<b>EPPO Diagnostic Protocol name</b>	PM 7/060 <i>Pantoea stewartii</i> (version 2)
<b>Name of the test</b>	Pathogenicity test
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Is the test modified compared to the reference test</b>	no
<b>Other information</b>	

<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b>Pantoea stewartii subsp. stewartii(ERWIST)</b>
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	Seven Pss isolates
<b>Specificity value</b>	One isolate out of seven did not cause symptoms on Tasty Sweet F1 cultivar of sweet corn
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	P. stewartii subsp. indologenes (2 isolates) P. ananatis (2 isolates)
<b>Specificity value</b>	One P. stewartii subsp. indologenes isolate caused symptoms on Tasty Sweet F1 cultivar of sweet corn
<b>Cross-reacts with</b>	Pantoea stewartii subsp. indologenes
<b>Diagnostic Specificity</b>	
<b>Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test</b>	100% The phosphate buffer that was used as a negative control did not cause symptoms
<b>Specify the test(s)</b>	Phosphate buffer was used as a negative control
<b>Reproducibility</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	Two operators performed the test, the symptoms were similar
<b>Repeatability</b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	All replicates showed similar symptoms
<b>Test performance study</b>	
<b>Test performance study?</b>	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">Validation pathogenicity test Pss</a></li> </ul>

Creation date: 2023-10-26 16:25:52 - Last update: 2023-10-30 09:36:26