

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 isolation of <i>Pantoea stewartii</i> subsp. <i>stewartii</i> from symptomatic sweet corn plants
Date, reference of the validation report	2022-04-14 - BAC-2022-12
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	detection
Method(s)	Isolation
Method: Isolation	
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	Isolation on King's B agar
As or adapted from an IPPC diagnostic protocol	no
Is the test modified compared to the reference test	no
Other information	
Other details on the test	Validation was also performed on NA and YPGA (next to King's B agar).
Performance Criteria :	

Organism 1.:	Pantoea stewartii subsp. stewartii(ERWIST)
<u>Analytical sensitivity</u>	
What is smallest amount of target that can be detected reliably?	King B and NA media: 45,36 cfu/ml YPG medium: 11,97 cfu/ml.
<u>Diagnostic sensitivity</u>	
Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98	100%
<u>Analytical specificity - inclusivity</u>	
Number of strains/populations of target organisms tested	22 Pss isolates
Specificity value	100%
<u>Analytical specificity - exclusivity</u>	
Number of non-target organisms tested	15 other Pantoea species or pathovars 1 Pseudomonas 1 Paraburkholderia
Specificity value	
Cross reacts with	Pantoea allii Pantoea ananatis Pantoea stewartii subsp. indologenes Pantoea dispersa Pantoea agglomerans Pseudomonas syringae pv. lapsa Paraburkholderia andropogonis
Test performance study	
Test performance study?	no
The following complementary files are available online:	<ul style="list-style-type: none"> • Validation report isolation Pss

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