## 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.

Research Centre for Plant Protection and Certification Via Carlo Giuseppe Bertero, 22, 00156 Rome, Italy Short description of the test  detection of Tomato leaf curl New Delhi virus Tomato leaf curl New Delhi virus Tomato leaf curl New Delhi virus Sperological DAS-ELISA in Leaves  Date, reference of the validation report  2022-05-05 - Proficiency test for detection of tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV)  Link to other validation data  - Proficiency test for detection of tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV)  detection of Tomato leaf curl New Delhi virus by Molecular LAMP in Leaves  - Proficiency test for detection of tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV)  detection and identification of Tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV)  detection and identification of Tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV)  detection and identification of Tomato leaf curl New Delhi virus Delhi virus by Molecular real time PCR in Leaves  Ves  Validation process according to EPPO  Standard PM7/98?  Is the lab accredited for this test?  No  Was the validated data generated in the framework of a project?  If yes, please specify  PT-02_2022 EURL Virology  Description of the test  Organism(s)  Tomato leaf curl New Delhi virus / Begomovirus solanumdelhiense (TOLCND)  detection / identification  detection  Method(s)  Serological DAS-ELISA  Reference of the test description  As or adapted from an EPPO diagnostic protocol  New test being considered for inclusion in the no		
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New Delhi virus (EURL-Virology_2020-02-ToLCNDV) detection of Tomato leaf curl New Delhi virus Tomato leaf curl New Delhi virus by Molecular LAMP in Leaves - Proficiency test for detection of tomato leaf curl New Delhi virus by Molecular LAMP in Leaves - Proficiency test for detection of tomato leaf curl New Delhi virus (EURL-Virology_2020-02-ToLCNDV) detection and identification of Tomato leaf curl New Delhi virus Tomato leaf curl New Delhi virus by Molecular real time PCR in Leaves  Validation process according to EPPO Standard PM7/98?  Is the lab accredited for this test?  Was the validated data generated in the framework of a project?  If yes, please specify  PT-02_2022 EURL Virology  Description of the test  Organism(s)  Tomato leaf curl New Delhi virus / Begomovirus solanumdelhiense (TOLCND)  Detection / Identification  Method(s)  Detection / Serological DAS-ELISA  Reference of the test description  As or adapted from an EPPO diagnostic protocol  New test being considered for inclusion in the no	Date, reference of the validation report	tomato leaf curl New Delhi virus (EURL-
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As or adapted from an EPPO diagnostic protocol  New test being considered for inclusion in the no	Method: Serological DAS-ELISA	
New test being considered for inclusion in the no	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

no	
DSMZ kit	
no	
yes	
? yes	
Performance Criteria :	
Begomovirus solanumdelhiense(TOLCND)	
Analytical sensitivity	
<b>De</b> 10^-2	
72%	
From a comparison of samples of known status. The tests was performed by three different laboratories	
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- ToLCNDV (italian isolate 102) - ToLCNDV (Italian isolate 126) - ToLCNDV isolate from DSMZ PV1109 ToLCNDV isolate from DSMZ PV1111)	
100%	
Analytical specificity - exclusivity	
TYLCV (M; IL); TYLCSV; TYLCThV; SLCV; WmCSV; ChaYMV	
86%	
leaf curl of squash	
100%	
From a comparison of samples of known status. The tests was performed by three different laboratories	
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Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	89%	
Repeatability		
Provide the calculated % of agreement for a given level of the pest (see PM 7/98)	88%	
Test performance study		
Test performance study?	yes	
Brief details of the test performance study and its output.It available, link to published article/report	The TPS was organized in the frame of EURL Virology activities and the 3 laboratories from the EURL consortium partecipates	

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