

**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>	Dutch General Inspection Service (NAK) Randweg 14, 8304AS Emmeloord, Netherlands
<b>Short description of the test</b>	Detection of pospiviroid in potato leaves by real-time RT-PCR
<b>Date, reference of the validation report</b>	2011-11-01 - Rapport van de labvalidatie: aantonen van pospivoroïden in aardappelblad m.b.v. real-time RT-PCR
<b>Validation process according to EPPO Standard PM7/98?</b>	no
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	
<b>Description of the test</b>	
<b>Organism(s)</b>	Pospiviroid (1POSPG)
<b>Detection / identification</b>	detection
<b>Matrix(ces) tested</b>	Leaves leaves
<b>Plant species tested</b>	Solanum tuberosum
<b>Method(s)</b>	Molecular real time RT PCR
<b>Method: Molecular real time RT PCR</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Reference of the test</b>	M. Botermans, B.L.T.H. van de Vossenbergh, J.Th.J. Verhoeven, M. Hooftman, R. Dekter, E.T.M. Meekes (2013). Development and validation of a real-time RT-PCR assay for generic detection of pospiviroids. Journal of Virological Methods: 187:43-50
<b>Other information</b>	
<b>Are the performance characteristics included in the EPPO diagnostic protocol?</b>	no
<b>Performance Criteria :</b>	

<b>Organism 1.:</b>	<b>Pospiviroid(1POSPG)</b>
<b><u>Analytical sensitivity</u></b>	
<b>What is the smallest amount of target that can be detected reliably?</b>	A) 1 infected leave in a pool of 100 healthy leaves B) sap of infected leave can be diluted 1: 2.500 in sap of healthy potato leaves
<b><u>Analytical specificity - inclusivity</u></b>	
<b>Number of strains/populations of target organisms tested</b>	CEVd, CLVd, CSVd, MPVd, PCFVd, PSTVd, TASVd, TCDVd, TPMVd, IrVd
<b>Specificity value</b>	Analytical specificity: highly specific for Pospiviroid species, no cross reactions with viruses commonly occurring in potato
<b><u>Analytical specificity - exclusivity</u></b>	
<b>Number of non-target organisms tested</b>	PVY, PVYn, PVYoc, PVA, PVX, PVS, PVM, PVV, PLRV, PepMV, PMTV, APLV, APMoV, PBRV.
<b>Specificity value</b>	
<b><u>Reproducibility</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b><u>Repeatability</u></b>	
<b>Provide the calculated % of agreement for a given level of the pest (see PM 7/98)</b>	100%
<b><u>Test performance study</u></b>	
<b>Test performance study?</b>	no

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