

**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.

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| Laboratory contact details | Dutch General Inspection Service (NAK) Randweg 14, 8304AS Emmeloord, Netherlands |
| Short description of the test | Detection of pospiviroid in potato leaves by real-time RT-PCR |
| Date, reference of the validation report | 2011-11-01 - Rapport van de labvalidatie: aantonen van pospivoroïden in aardappelblad m.b.v. real-time RT-PCR |
| Validation process according to EPPO Standard PM7/98? | no |
| Is the lab accredited for this test? | no |
| Was the validated data generated in the framework of a project? | |
| If yes, please specify | |
| Description of the test | |
| Organism(s) | Pospiviroid(1POSPG) |
| Detection / identification | detection |
| Matrix(ces) tested | Leaves leaves |
| Plant species tested | Solanum tuberosum |
| Method(s) | Molecular real time RT PCR |
| Method: Molecular real time RT PCR | |
| 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? | |
| As or adapted from an IPPC diagnostic protocol | no |
| Reference of the test | 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. <i>Journal of Virological Methods</i> : 187:43-50 |
| Is the test modified compared to the reference test | |

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| Kit | |
| Is a kit used | |
| Other information | |
| Reaction type | |
| Other details on the test | |
| Are the performance characteristics included in the EPPO diagnostic protocol? | no |
| Performance Criteria : | |
| Organism 1.: | Pospiviroid(1POSPG) |
| Analytical sensitivity | |
| What is smallest amount of target that can be detected reliably? | 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 |
| Diagnostic sensitivity | |
| Proportion of infected/infested samples tested positive compared to results from the standard test, see appendix 2 of PM 7/98 | |
| Standard test(s) | |
| Analytical specificity - inclusivity | |
| Number of strains/populations of target organisms tested | CEVd, CLVd, CSVd, MPVd, PCFVd, PSTVd, TASVd, TCDVd, TPMVd, IrVd |
| Specificity value | Analytical specificity: highly specific for Pospiviroid species, no cross reactions with viruses commonly occurring in potato |
| Analytical specificity - exclusivity | |
| Number of non-target organisms tested | PVY, PVYn, PVYoc, PVA, PVX, PVS, PVM, PVV, PLRV, PepMV, PMTV, APLV, APMoV, PBRV. |
| Specificity value | |
| Cross reacts with | |
| Diagnostic Specificity | |
| Proportion of uninfected/uninfested samples (true negatives) testing negative compared to results from a standard test | |
| Specify the test(s) | |
| Reproducibility | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% |
| Repeatability | |
| Provide the calculated % of agreement for a given level of the pest (see PM 7/98) | 100% |
| Test performance study | |

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| Test performance study? | no |
| Brief details of the test performance study and its output.It available, link to published article/report | |
| Other information | |
| Any other information considered useful | |

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