VALIDATION DATA SHEET

This validation data sheet has been produced following recommendations of the EPDIA Quality Charter.
For further information, please visit the EPDIA website (www.epdia.eu)

PRODUCT/TEST CODE	PVY Full kit (500, 1000 tests) / PVYocn-XRA 0500; PVYocn-XRA 1000
Product/test description	ELISA diagnostic kit for PVY
MANUFACTURER	SEDIAG SAS Technopôle Agro-Environnement Bâtiment B – 2eme étage RD 31 21110 Bretenière France Tél: +33 (0) 3 80 67 49 42 mail: info@sediag.fr Web: https://sediag.fr/

GENERAL INFORMATION

Target Organism(s)	Potato Virus Y (PVY)
Method	DAS-ELISA
References	Singh, RP; Valkonen, JPT; Gray, SM, et al. 2008. Discussion paper: The naming of Potato virus Y strains infecting potato. ARCHIVES OF VIROLOGY. Volume: 153. Issue: 1. Pages: 1-13. Ounouna, H; Kerlan, C; Lafaye, P, et al. 2002. Production of monoclonal antibodies against synthetic peptides of the N-terminal region of Potato virus Y coat protein and their use in PVY strain differentiation. PLANT PATHOLOGY. Volume: 51. Issue: 4. Pages: 487-494.

SCOPE

Scope	Detection of PVY in plant material
Matrix	Potato leaves
Tested species	Potato

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PERFORMANCE CHARACTERISTICS

Analytical specificity *(ability of the product/test to distinguish the target organism from other organisms and the degree in which the product/test can distinguish known variants of the organism)*	100% Target organism: leaf potatoes, positive control infected by PVY Other organism: leaf potatoes infected by PLRV, PVA, PVM and PVS. Internal method.
Cross reaction with	No cross reaction knows
Analytical sensitivity *(limit of detection)*	100% (Limit of detection intern reference material: approximately 1/256)
Reproducibility *(ability of the kit to provide consistent results when applied to aliquots of the same sample tested under different conditions)*	98.33%
Repeatability *(the level of agreement between replicates of a sample tested under the same conditions)*	98.33%
Other performance characteristics	NA

REFERENCE MATERIAL

Type of reference material	Potato leaves
Reference material control	DAS-ELISA

OTHER INFORMATION

Any other information considered useful	NA