



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

GENERAL INFORMATION

Target Organism(s)	Xylella Fastidiosa (XF)
Method	DAS-ELISA
References	Chatterjee, S; Almeida, RPP; Lindow, S. 2008. Living in two worlds: The plant and insect lifestyles of Xylella fastidiosa. ANNUAL REVIEW OF PHYTOPATHOLOGY. Volume: 46. Pages: 243-271. Redak, RA; Purcell, AH; Lopes, JRS, et al. 2004. The biology of xylem fluid-feeding insect vectors of Xylella fastidiosa and their relation to disease epidemiology. ANNUAL REVIEW OF ENTOMOLOGY. Volume: 49. Pages: 243-270. Almeida, RPP; Pereira, EF; Purcell, AH, et al. 2001. Multiplication and movement of a citrus strain of Xylella fastidiosa within sweet orange. PLANT DISEASE. Volume: 85. Issue: 4. Pages: 382-386. Li, WB; Zreik, L; Fernandes, NG, et al. 1999. A triply cloned strain of Xylella fastidiosa multiplies and induces symptoms of citrus variegated chlorosis in sweet orange. CURRENT MICROBIOLOGY. Volume: 39. Issue: 2. Pages: 106-108.

SCOPE

Scope	Detection of XF in plant material
Matrix	Olive tree leaves and Grapevine
Tested species	Olive tree and Grapevine



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PERFORMANCE CHARACTERISTICS

Analytical specificity <i>(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)</i>	100% Target organism: Bacteria isolated from mulberry, United States of America, Massachusetts, Georgia; Bacteria isolate from almond plant, United States of America, California; Bacteria isolated from grapevine, United States of America, Florida. Other organism: Citrus infected by CTV, Wood infected by GLRaV-1 and GLRaV-3, Leaf infected by SLRV. Internal method.
Cross reaction with	No cross reaction knows.
Analytical sensitivity <i>(limit of detection)</i>	100% (Limit of detection intern reference material: approximately 1/32)
Reproducibility <i>(ability of the kit to provide consistent results when applied to aliquots of the same sample tested under different conditions)</i>	98,28 %
Repeatability <i>(the level of agreement between replicates of a sample tested under the same conditions)</i>	96,55 %
Other performance characteristics	NA

REFERENCE MATERIAL

Type of reference material	Olive tree leaves and Grapevine
Reference material control	DAS-ELISA

OTHER INFORMATION

Any other information considered useful	NA
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