



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	GLRaV-1 Full kit (500, 1000 tests) / LR1-XRA 0500 ; LR1-XRA 1000
Product/test description	ELISA diagnostic kit for GLRaV-1
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)	Grapevine Leafroll-associated Virus 1 (GLRaV-1)
Method	DAS-ELISA
References	<p>Seddas, A. et al., 2000. A monoclonal antibody reveals that grapevine leafroll associated closteroviruses 1 and 3 are serologically related. <i>Plant pathology</i>, 49, 80-85</p> <p>Walter B., 1997. Sanitary selection of the grapevine : Protocols for the detection of viruses and virus-like diseases. <i>Les Colloques INRA Editions</i>, 86, 225 p.</p> <p>Walter B. et Martelli GP., 1997. Clonal and sanitary selection of the grapevine. In Walter B., ed. Sanitary Selection of the grapevine. Paris, France-INRA, 43-96.</p> <p>Habili N. et al., 1996. Virus types associated with grapevine leafroll disease in Australia., <i>Annual Technical Issue of Australian Grapgrower & Winemaker</i>, 25-28.</p> <p>Van Regenmortel M.H.V. et Dubs MC., 1993. Serological procedures. In Matthews REF, ed. Diagnosis of Plant Virus Diseases. London, UK, 159-214.</p> <p>Zimmermann D. et al., 1990a. Characterization and serological detection of four closterovirus particles associated with leafroll disease on grapevine., <i>J. Phytopath.</i>, 130, 205-218.</p> <p>Zimmermann D. et al., 1990b. Production and characterization of monoclonal antibodies specific to closterovirus-like particles associated with grapevine leafroll disease., <i>J. Phytopath.</i>, 130, 277-288.</p> <p>Zimmermann D. et al., 1988. Purification des particules virales associées à l'enroulement de la vigne et mise au point d'un protocole ELISA permettant leur détection., <i>Agronomie</i>, 8 (8), 731-741.</p> <p>Zrein M. et al., 1986. Use of the biotin-avidin system for detecting a broad range of serologically related plant viruses by ELISA., <i>J. Virol. Methods</i>, 13, 121-128.</p> <p>Van Regenmortel M., 1982. Serology and Immunochemistry of Plant Viruses., <i>Academic Press</i>, 302.</p>

SCOPE

Scope	Detection of GLRaV-1 in plant material
Matrix	Grapevine
Tested species	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: wood grapevine, leaf grapevine, positive control infected by GLRaV-1. Other organism: wood grapevine infected by GLRaV-2, GFkV, ArMV and GFLV. Internal method
Cross reaction with	No cross reaction knowns
Analytical sensitivity <i>(limit of detection)</i>	100% (Limit of detection intern reference material: approximately 1/8)
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	Grapevine
Reference material control	DAS-ELISA

OTHER INFORMATION

Any other information considered useful	NA
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