# VALIDATION DATA SHEET

Member of the European Plant Diagnostic Industry Association

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)

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|---|---|
| PRODUCT/TEST CODE | GLRaV-3 Full kit (500, 1000 tests) / **LR3**-XRA 0500; **LR3**-XRA 1000 |
| Product/test description | ELISA diagnostic kit for GLRaV-3 |
| MANUFACTURER | SEDIAG SAS<br>Technopôle Agro-Environnement<br>Bâtiment B – 2eme étage<br>RD 31<br>21110 Bretenière<br>France<br>Tél: +33 (0) 3 80 67 49 42<br>mail: info@sediag.fr<br>Web: https://sediag.fr/ |

## GENERAL INFORMATION

| | |
|---|---|
| Target Organism(s) | Grapevine Leafroll-associated Virus 3 (GLRaV-3) |
| Method | DAS-ELISA |
| References | **Seddas, A. et al., 2000.** A monoclonal antibody reveals that grapevine leafroll associated closteroviruses 1 and 3 are serologically related. *Plant pathology,* 49, 80-85<br>**Walter B., 1997.** Sanitary selection of the grapevine : Protocols for the detection of viruses and virus-like diseases. *Les Colloques INRA Editions*, 86, 225 p.<br>**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.<br>**Habili N. et al., 1996.** Virus types associated with grapevine leafroll disease in Australia., *Annual Technical Issue of Australian Grapegrower & Winemaker*, 25-28.<br>**Van Regenmortel M.H.V. et Dubs MC., 1993.** Serological procedures. In Matthews REF, ed. Diagnosis of Plant Virus Diseases. London, UK, 159-214.<br>**Zimmermann D. et al., 1990a.** Characterization and serological detection of four closterovirus particles associated with leafroll disease on grapevine., *J. Phytopath*., 130, 205-218.<br>**Zimmermann D. et al., 1990b.** Production and characterization of monoclonal antibodies specific to closterovirus-like particles associated with grapevine leafroll disease., *J. Phytopath*., 130, 277-288.<br>**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., *Agronomie*, 8 (8), 731-741.<br>**Zrein M. et al., 1986.** Use of the biotin-avidin system for detecting a broad range of serologically related plant viruses by ELISA.,*J. Virol. Methods*, 13, 121-128.<br>**Van Regenmortel M., 1982.** Serology and Immunochemistry of Plant Viruses., *Academic Press*, 302. |

## SCOPE

| | |
|---|---|
| Scope | Detection of GLRaV-3 in plant material |
| Matrix | Grapevine |
| Tested species | Grapevine |

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## PERFORMANCE CHARACTERISTICS

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|---|---|
| Analytical specificity<br>*(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%<br>Target organism: wood grapevine, leaf grapevine, positive control infected by GLRaV-3.<br>Other organism: wood grapevine infected by GLRaV-2, GVA, GFkV, ArMV and GFLV.<br>Internal method |
| Cross reaction with | No cross reaction knows |
| Analytical sensitivity<br>*(limit of detection)* | 100% (Limit of detection intern reference material: approximately 1/64) |
| Reproducibility<br>*(ability of the kit to provide consistent results when applied to aliquots of the same sample tested under different conditions)* | 96.67 % |
| Repeatability<br>*(the level of agreement between replicates of a sample tested under the same conditions)* | 95.00 % |
| Other performance characteristics | NA |

## REFERENCE MATERIAL

| | |
|---|---|
| Type of reference material | Grapevine |
| Reference material control | DAS-ELISA |

## OTHER INFORMATION

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| Any other information considered useful | NA |