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Validation report DAS-ELISA SLRSV

Article No.: 151677 (SLRSV Complete kit 96) / 151675 (SLRSV Complete kit 480) / 151672 (SLRSV Complete kit 960)

General information:

Target Pathogen	SLRSV (Strawberry latent ringspot virus)	
Genus	Stralarivirus	
Method	DAS-ELISA	

Technical information:

Antibodies	Polyclonal antibodies developed against SLRSV isolates from peach and mint.	
Sampling	Grapevine: 1:10 (w/v) in extraction buffer "Grapevine" Other plants: 1:20 (w/v) in extraction buffer "General"	
Controls	ntrols Negative control (NC): lyophilized extracts from healthy plan Positive control (PC): lyophilized SLRSV infected plant extract	
Working volume	200 μl / well	

Host matrix:

nost matrix.					
	Leaf and bark (phloem)				
Tested plant material	Sap-transmissible, nematodes (Xiphinema spcc.), seed-				
	transmissible				
	Chenopodium quinoa (Quinoa)				
	Clematis (Woodland vines)				
	Fragaria vesca (Strawberry)				
	Lilium sp. (Lilies)				
	Mentha gentilis (Ginger mint)				
Tested species infected	Nicotiana benthamiana (Tobacco)				
Tested species infected	Phaseolus vulgaris (Bean)				
	Prunus persica (Peach)				
	Robinia pseudoacacia (Robinia)				
	Rosa rugosa (Rose)				
	Rubus fruticosus (Blackberry)				
	Vitis vinifera (Grapevine)				

Specificity: Analytical Specifici

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	>100
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	>100
Detected isolates / geographic regions (Inclusivity)	SLRSV 1005 (Switzerland, Quinoa) SLRSV 997 (Switzerland, Quinoa) SLRSV 34198 (Switzerland, Grapevine) SLRSV 34199 (Switzerland, Grapevine) SLRSV 38004 (Switzerland, Grapevine) SLRSV 38005 (Switzerland, Grapevine) SLSRV 40497 (Switzerland, Grapevine)

phone +41 61 712 11 25

+41 61 712 11 17

fax

www.bioreba.com

BIOREBA AG Christoph Merian-Ring 7 CH-4153 Reinach BL1 Switzerland Your Partner in Agro-Diagnostics

admin@bioreba.ch

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	SLRSV GF 305 27862-27866 (Switzerland, Peach) SLRSV 11092 (Switzerland, Blackberry) SLRSV 1391 5875017 (Netherlands, Quinoa) SLRSV 1391 5875017 (Netherlands, Quinoa) SLRSV 1390 4226509 (Netherlands, Quinoa) SLRSV 1390 4226509 (Netherlands, Tobacco) SLRSV 12-001 (Netherlands, Lily) SLRSV 12-001 (Netherlands, Lily) SLRSV 14-021 (Norway, woodland vines) SLRSV 14-022 (New Zealand, Blackberry) SLRSV 14-022 (New Zealand, Blackberry) SLRSV 14-023 (Germany, Strawberry) SLRSV 14-024 (Netherlands, Rose) SLRSV 14-025 (Netherlands, Rose) SLRSV 14-026 (Netherlands, Rose) SLRSV 14-027 (Poland, Robinia) SLRSV 15-017 5674880 (France, Peach) SLRSV 15-018 5674899 (Switzerland, Blackberry)		
Cross reaction with (Exclusivity)	SLRSV NCGR MEN 454.001 (US, Ginger-Mint) <u>SLRSV-C:</u> LycMoV (Lychnis mottle virus)		
No cross reaction tested with (Exclusivity)	APMoV (Andean potato mottle viru) ArMV (Arabis mosaic virus) BYDV (Barley yellow dwarf virus) CaMV (Cauliflower mosaic virus) CLRV (Cherry leaf roll virus) CTV (Citrus tristeza virus) GFkV (Grapevine fleck virus) GFLV (Grapevine fleck virus) GLRaV-1 (Grapevine leafroll-associated virus 1) GLRaV-3 (Grapevine leafroll-associated virus 3) GVA (Grapevine virus A) PLRV (Potato leafroll virus) PMMoV (Pepper mild mottle virus) PVM (Potato virus M) PVS (Potato virus S) RpRSV (Raspberry ringspot virus) TBRV (Tomato black ring virus)		
No matrix effect observed with (Selectivity)	Fragaria vesca (Strawberry) Narcissus sp. (Narcissus) Prunus domestica (Plum) Prunus persica (Peach) Rubus fruticosus (Blackberry) Vitis vinifera (Grapevine)		

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10 ⁻² dilution of infected tissue (pathogen titer
	unknown)
Sensitivity on host matrix	SLRSV on leaves of grapevine: 1:250 dilution
Sensitivity on nost matrix	Pathogen titer unknown
Other sensitivity characteristics	-
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Validation:

Intern	al validation		2015 and 2021 (la	ast internal validation)		
www.bioreba.com	BIOREBA AG Christoph Merian-Ring 7 CH-4153 Reinach BL1 Switzerland	phone fax	Your Partne +41 61 712 11 25 +41 61 712 11 17	r in Agro-Diagnostics admin@bioreba.ch www.bioreba.com	Key acol	C MARA



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External validation	Validation by 1 external research partner in 2021 (NL).
Reproducibility	100%
Repeatability	100%
Validation information	Internally, the reagents have been validated with the BIOREBA isolate collection composed of various samples collected within the last 40 years.

Validation release Date: May, 22nd, 2023 QC manager:

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Version: 2 – 01.09.2023 - Information about sensitivity on host matrix and limit of detection (LoD) added.

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BIOREBA AG Christoph Merian-Ring 7 CH-4153 Reinach BL1 Switzerland Your Partner in Agro-Diagnostics

phone +41 61 712 11 25 fax +41 61 712 11 17 admin@bioreba.ch www.bioreba.com

