Validation report

DAS-ELISA ACLSV

Article No.: 151077 (ACLSV Complete kit 96) / 151075 (ACLSV Complete kit 480) /

151072 (ACLSV Complete kit 960)

General information:

Target Pathogen	ACLSV (Apple chlorotic leaf spot virus)	
Genus	Trichovirus	
Method	DAS-ELISA	

Technical information:

Antibodies	Polyclonal antibodies developed against two different ACLSV isolates from apple.
Sampling	1:20 (w/v) in extraction buffer "General". Sampling (season, material) is very important.
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized ACLSV infected plant extracts
Working volume	200 μl / well

Host matrix:

Tested plant material	Petals, forced buds, young leaves, wooden parts
Tested species infected	Chenopodium quinoa (Quinoa) Malus domestica (Apple) Nicotiana occidentalis (Tobacco) Prunus avium (Cherry) Prunus persica (Peach) Pyrus communis (Pear)

Specificity:

specificity.	
Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	42
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	>100
Detected isolates / geographic regions (Inclusivity)	ACLSV 1138 (Switzerland, Apple) ACLSV 1138 (Switzerland, Tobaco) ACLSV 1115 (Switzerland, Cherry) ACLSV 1115 (Switzerland, Quinoa) ACLSV 1379 (Switzerland, Quinoa) ACLSV 317 (Switzerland, Peach) ACLSV 2104 13-3-5 (Switzerland, Apple) ACLSV (France, Apple) ACLSV (France, Apple) ACLSV 37843 (Switzerland, Apple) ACLSV 41411-14 (Switzerland, Peach) ACLSV 40826 (Switzerland, Apple) ACLSV 40806 (Switzerland, Pear) ACLSV 40827 (Switzerland, Cherry) ACLSV 41414 (Switzerland, Peach) ACLSV 37813 (Switzerland, Apple)





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	ACLSV 27+28 (Switzerland, Apple)
Cross reaction with (Exclusivity)	None known
No cross reaction tested with (Exclusivity)	ASPV (Apple stem pitting virus) BYDV (Barley yellow dwarf virus) CaMV (Cauliflower mosaic virus) GLRaV-1 (Grapevine leafroll-associated virus 1) LMV (Lettuce mosaic virus) PLRV (Potato leafroll virus) PMTV (Potato mop-top virus) PVA (Potato virus A) PVS (Potato virus S) TBRV (Tomato black ring virus) ToANV (Tomato apex necrosis virus)
No matrix effect observed with (Selectivity)	Chenopodium quinoa (Quinoa) Malus domestica (Apple) Nicotiana occidentalis (Tobacco) Prunus armeniaca (Apricot) Prunus avium (Cherry) Prunus domestica (Plum) Prunus persica (Peach) Pyrus communis (Pear)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	-
Sensitivity on host matrix	100%
Other sensitivity characteristics	-

Validation:

Internal validation	2001, 2017 (last internal validation)
External validation	-
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: June, 12th, 2023 QC manager:

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Version: 1 – 12.06.2023



