Validation report

DAS-ELISA ASGV

150877 (ASGV Complete kit 96) / 150875 (ASGV Complete kit 480) / Article No.:

150872 (ASGV Complete kit 960)

General information:

Target Pathogen	ASGV (Apple stem grooving virus) CTLV (Citrus tatter leaf virus) → considered as strain of ASGV	
Genus	Capillovirus	
Method	DAS-ELISA	

Technical information:

Antibodies	Polyclonal antibodies developed against different ASGV		
	isolates from apple.		
	1:20 (w/v) in extraction buffer "General".		
Sampling	Sampling (season, material) is very important. Low		
	concentration in apple trees.		
Cantuala	Negative control (NC): lyophilized extracts from healthy plants		
Controls	Positive control (PC): lyophilized ASGV 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)	

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	22
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	82
Detected isolates / geographic regions (Inclusivity)	ASGV PV-0199 (Russia, Quinoa) ASGV 937 (Switzerland, Quinoa) ASGV 1101 (Switzerland, Quinoa) ASGV 1125 (Switzerland, Tobacco) ASGV 38855 (Switzerland, Apple) ASGV 38856-57 (Switzerland, Apple) ASGV 38861-63 (Switzerland, Apple) ASGV Golden 2111 13-3-9 (Switzerland, Apple) ASGV Golden 2112 13-3-8 (Switzerland, Apple)
Cross reaction with (Exclusivity)	None known
No cross reaction tested with (Exclusivity)	Aac (Acidovorax avenae subsp. citrulli) ApP (Apple proliferation phytoplasma) ASPV (Apple stem pitting virus) BNYVV (Beet necrotic yellow vein virus) BYDV (Barley yellow dwarf virus) CaMV (Cauliflower mosaic virus)

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	CLDV/(Cl)f
	CLRV (Cherry leaf roll virus)
	GFLV (Grapevine fanleaf virus)
	GLRaV-3 (Grapevine leafroll-associated virus 3)
	PeAMV (Petunia asteroid mosaic virus)
	ToANV (Tomato apex necrosis virus)
	Chenopodium quinoa (Quinoa)
No matrix effect observed with	Malus domestica (Apple)
(Selectivity)	Prunus armeniaca (Apricot)
	Rubus idaeus (Rapsberry)

Sensitivity:

100%
10 ⁻⁴ dilution of infected tissue (pathogen titer
unknown)
ASGV on leaves of quinoa: 1:31'250 dilution
ASGV on leaves of apple: 1:31'250 dilution
Pathogen titer unknown
-

Validation:

Internal validation	1994, 2002, 2009 (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:

Version: 2 – 17.07.2024 - Information about sensitivity on host matrix and limit of detection (LoD) added.





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