OREBA

Validation report DAS-ELISA CLRV

Article No.: 150977 (CLRV Complete kit 96) / 150975 (CLRV Complete kit 480) / 150972 (CLRV Complete kit 960)

General information:

Target Pathogen	CLRV (Cherry leaf roll virus)	
Genus	Nepovirus	
Method	DAS-ELISA	

Technical information:

Antibodies	Polyclonal antibodies developed against birch and elderberry isolates from Germany as well as polyclonal antibodies developed against a cherry isolate from the Pacific Northwest of the USA.	
Sampling	Leaf samples: 1:20 (w/v) in extraction buffer "general". Various samples per plant recommended to increase chance of correct diagnosis. Optimal: dormant budwood & young leaf (spring / early summer)	
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized CLRV infected plant extracts	
Working volume	200 µl / well	

Host matrix:

Tested plant material	Leaf, Budwood
Tested species infected	Betula pendula (Birch) Chenopodium Quinoa (Quinoa) Juglans regia (Walnut) Nicotiana benthamiana (Tobacco) Nicotiana clevelandii (Tobacco)
	Nicotiana occidentalis (Tobbaco) Sambucus racemose (Mountain Elderberry)

Specificity: **Analytical Specificity** 100% Number of tested samples from target >41 organism (True Positives) 100% **Diagnostic Specificity** Number of tested samples non-target >36 organism (True Negatives) CLRV-ch/-e 1003 (France, Walnut) CLRV-ch/-e 1003 (France, Tobacco) CLRV (Germany, Elderberry) CLRV (Switzerland, Tobacco) Detected isolates / geographic regions CLRV-ch/e 982 (Germany, Quinoa) (Inclusivity) CLRV-ch/e 982 (Germany, Elderberry) CLRV-ch 1219 (Germany, Quinoa) CLRV-ch 1219 (Germany, Tobacco) CLRV-ch 1370 (USA, Quinoa)

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	CLRV-ch 1370 (USA, Tobacco)
	CLRV-ch N°407553 (Germany, Birch)
	CLRV-ch N°407554 (Germany, Birch)
	CLRV-ch N°407555 (Germany, Birch)
	CLRV-ch N°407556 (Germany, Birch)
	CLRV-ch/-e 1172 (Switzerland, Tobacco)
	CLRV-ch/-e 1172 (Switzerland, Quinoa)
Cross reaction with (Exclusivity)	None known
No cross reaction tested with (Exclusivity)	None tested
	Betula pendula (Birch)
	Chenopodium quinoa (Quinoa)
	Fragaria (Strawberry)
	Juglans regia (Walnut)
	Nicotiana benthamiana (Tobacco)
No matrix effect observed with	Nicotiana clevelandii (Tobacco)
(Selectivity)	Prunus armeniaca (Apricot)
	Prunus avium (Cherry)
	Prunus persica (Peach)
	Rubus (Blackberry)
	Rubus idaeus (Raspberry)
	Sambucus (Elderberry)

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

Validation:	
Internal validation	2022-2023
External validation	-
Reproducibility	100%
Repeatability	100%
Validation information	Internally, the reagents have been validated with the BIOREBA isolate collection, composed of various samples with diverse plant host range, collected within the last 40 years.

Validation release Date: April, 7th, 2023 QC manager:

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