



AmplifyRP® XRT for HLVd
Validation Report
Hop latent viroid
Product No. XCS 76500



Test Characteristics

Test Name	Hop latent viroid	Test Label	FAM-labeled target probe
Catalog Number	76500	Internal Control	N/A
Acronym	HLVd	Format	XRT
Genus	Cocadviroid	Diluents	GEB/PD1
		Sample Dilution	1:20

Summary

AmplifyRP XRT for HLVd is a rapid RNA amplification and detection platform designed for field-based or laboratory testing of hops and Cannabis spp (including industrial hemp) for Hop latent viroid. This kit includes lyophilized reaction pellets containing the necessary reagents to amplify HLVd RNA at a single operating temperature (42 °C).

Diagnostic Sensitivity

True Positives	31
Correct Diagnoses	31
Percent	100%

Analytical Sensitivity

Limit of Detection: Approximately 20 fg/μL of RNA transcripts

Analytical Specificity

Inclusivity:

Isolates and Geographic Regions Detected:

HLVd-C1 (USA) ¹	HLVd-C2 (USA) ¹
HLVd-CV1 (USA) ¹	HLVd-CV_38 (USA) ¹
HLVd-CV_93 (USA) ¹	HLVd-CV_117 (USA) ¹
HLVd-GVdC_HLVd01 (Belgium) ¹	HLVd-H2 (China) ¹
HLVd-RefSeq (Germany)	HLVd-T92 (Czech Republic) ¹
HLVd-Y7 (China) ¹	HLVd Tahoma isolate (MI, USA)
HLVd Yakima G isolate (MI, USA)	

¹Predicted detection by *in silico* analysis only.

Exclusivity:

Cross-reacts With:

None known	
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Does Not Cross-react With:

Apple mosaic virus (ApMV)	Arabis mosaic virus (ArMV)
Citrus bark cracking viroid (CBCVd)	Coconut cadang-cadang viroid (CCCVd)
Coconut tinangaja viroid (CTiVd)	Columnea latent viroid (CLVd)

Does Not Cross-react With:

Hop latent virus (HpLV) ¹	Hop mosaic virus (HpMV) ¹
Hop stunt viroid (HSVd)	Potato spindle tuber viroid (PSTVd)
Tomato chlorotic dwarf viroid (TCDVd)	
¹ Predicted non-detection by <i>in silico</i> analysis only.	

Diagnostic Specificity

True Negatives 44
 Correct Diagnoses 44
 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Almond leaves	Begonia leaves	Calibrachoa leaves	Cannabis (Hemp) leaves
Chrysanthemum leaves	Citrus leaves	Cotton leaves	Cucumber leaves
Geranium leaves	Grape leaves	Hop leaves	Hop seeds
Pistachio leaves	Plum leaves	Potato leaves	Tomato leaves

Repeatability

Number of Samples 24
 Replicates per Sample 3
 Average Percent Agreement Between Replicates 100%

Reproducibility

Number of Samples 24
 Replicates per Sample 3
 Number of Operators 3
 Average Percent Agreement Between Replicates Between Operators 98.1%

Questions or Technical Support:

Phone: 800-622-4342 (toll-free) or 574-264-2014
 Fax: 574-264-2153
 E-mail: info@agdia.com for sales and general product information
techsupport@agdia.com for technical information and troubleshooting

Web: www.agdia.com

AmplifyRP Test Kits employ recombinase polymerase amplification (RPA) technology, developed by TwistDx Limited, U.K. Use of the RPA process and probe technologies are protected by US patents 7,270,981 B2, 7,399,590 B2, 7,435,561 B2, 7,485,428 B2 and foreign equivalents in addition to pending patents.

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