



HOP LATENT VIROID DETECTION BY RT-qPCR

Thomas No.	Description
CHM03W961	Cosanta HLVD, 72 rxn with extraction
CHM03Z648	Cosanta HLVD, 72 rxn without extraction

Democratizing Hop Latent Viroid detection with simplified protocols and miniaturized, portable, state-of-the-art instruments and software

FAST – SIMPLE – COST EFFECTIVE – GOLD STANDARD METHOD

- Developed and optimized for use on the Hyris bCUBE™ RT-qPCR platform*
- 8-minute RNA extraction protocol from root samples
- Simplified RT-qPCR recipe with only two pipetting steps
- Automatic, software-driven, results interpretation algorithms for unprecedented ease of use
- 16 or 36 well plates for flexible test sample throughput
- 2 hours from sample collection to results
- Advanced software for reporting, cloud data aggregation and analytics
- Remote access to results via mobile device, tablet or personal computer
- HLVD kit available in 72 reaction format, including RNA extraction buffer

* Thomas Nos. **CHM03W961** and **CHM03Z648** test kits may also be run on other platforms, including Bio-Rad CFX96.



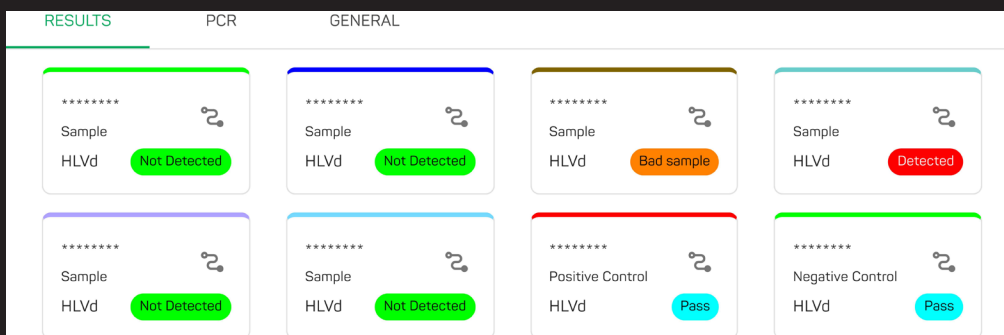
HYRIS bCUBE™ PLATFORM SPECIFICATIONS

PORTABLE. SCALABLE. EASY

Fast DNA/RNA amplification and detection
 Robust, Compact, Lightweight, Green
 High precision thermal control
 Performing Isothermal Amplification, Real Time PCR and Melting Curves
 2 simultaneous wavelengths detection
 Modular throughput



DIMENSION	100 x 100 x 120 mm	DETECTED WAVELENGTHS	572nm and 524 nm
WEIGHT	1.13 kg	THERMAL BLOCK	Peltier module for heating and cooling
USER INTERFACE	HYRIS bAPPTM (Multi Platform) / HYRIS bPANELTM (Windows PC)	TEMPERATURE SENSOR	High precision NTC resistor
COMMUNICATION INTERFACES	WiFi, Ethernet	TEMPERATURE RESOLUTION	< 0.05 °C
SAMPLE NUMBER	16 samples on standard cartridge 36 samples on new cartridge	TEMPERATURE UNIFORMITY	± 0.1 °C
REACTION VOLUME	10 to 30 µl	TEMPERATURE CONTROL RANGE	20 – 99 °C
LIGHT SOURCE	High brightness LEDs – 2 wavelengths	TEMPERATURE RAMP	Up to 1.5 °C/s
EXCITATION WAVELENGTHS	472 nm and 530 nm	POWER SUPPLY	12 V – DC
OPTICAL DETECTION	High resolution, low noise CMOS Camera (1.3MP)	POWER CONSUMPTION	Max 60W
ACQUISITION TIME	< 1s – Total time for all samples		



Exemplificative HLVD test results page: negative, inconclusive and positive samples for HLVD in green, orange and red labels, respectively

The Hop Latent Viroid PCR test from Cosanta Molecular Defense, with the Hyris System™, allows customers to run their own Molecular tests with confidence and ease, saving significant time and money compared to third party lab testing

MANUFACTURERS
CERTIFICATIONS:



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