



HYRIS bCUBE™ starter kit

From raw material to
final result.

Datasheet

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HYRIS bCUBE™ starter kit

The starter kit includes one HYRIS bCUBE™ unit plus all the reagents, disposable and additional equipment for easy and fast DNA/RNA analysis through Real-Time PCR, from raw material to final result, with all the support and training.

Get easy your sample homogenization

- Vortex, disposable beads and micro-pestles for homogenization of your raw material will be provided.
- According to the nature of your sample, Hyris will suggest you the more suitable method.
- Moreover, Hyris will provide you with a full training and technical support for the correct and reliable manipulation of your raw material.



High performance and portability with compact lab equipment

- High-performance and compact minicentrifuge and thermal block for portable, easy, and reliable nucleic acid purification for subsequent analysis in Real-Time PCR will be provided.
- Due to the reduced dimensions and weight of the equipment included in the starter kit, you'll be able to perform your job in the field with the same performance as a traditional analysis laboratory.



Specific reagents for sample preparation

- According to samples nature and subsequent analysis, a specific sample prep kit will be available.
- The kit will include all the necessary reagents and disposables for the specific preparation of your sample.
- The sample prep kit will allow you to prepare your sample for subsequent analysis in Real-Time PCR.



Specific reagents for sample analysis in Real-Time PCR

- According to the Real-Time PCR analysis you are interested in, a specific bKIT will be available.
- The HYRIS bKIT will allow you to perform the specific amplification of the target of your interest in Real-Time PCR
- The HYRIS bKIT contains all the reagents and instruction manual to perform the analysis correctly and reliably.
- The HYRIS bKITs are specifically developed to be used on the HYRIS bCUBE™ device, but can be used also on a traditional laboratory thermal cycler.



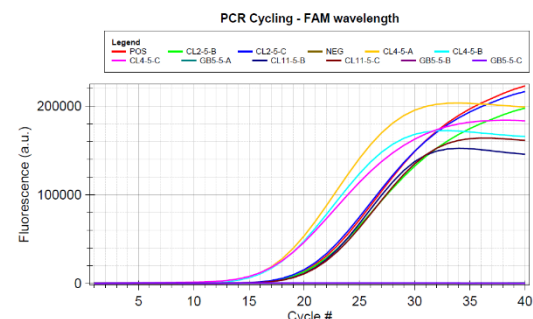
HYRIS bCUBE™

- One HYRIS bCUBE™ unit is provided with the starter kit
- Portable, fast DNA/RNA amplification and detection
- Robust, Compact, Lightweight for "in the field" operation
- High precision thermal control
- Performing Isothermal Amplification, Real Time PCR and Melting Curves
- Simultaneous multi wavelength detection
- Enhanced connectivity: WiFi, Ethernet, Bluetooth
- HYRIS bDATA™ service features cloud storage as well as remote control and monitoring



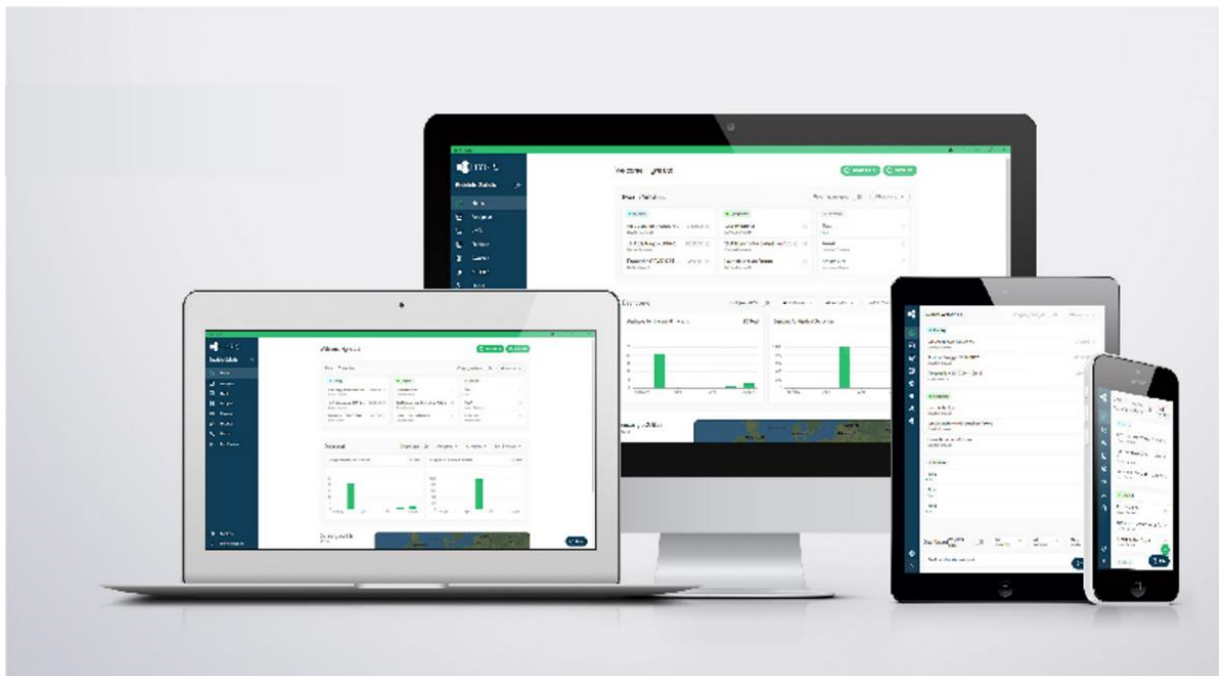
Real Time DNA/RNA amplification and detection

- Detection in less than 15 minutes for Isothermal amplification
- Automatic results interpretation
- Auto-adaptive thermal control that sweeps from very fast (thermal cycling) to very slow ramps (melting curves)
- High speed detection enables high resolution melting curves (sampling < 0.05°C)
- Wireless and wired connectivity for maximum flexibility



Get Connected with HYRIS bAPP™

- Smart analysis portability with HYRIS bAPP™
- Wireless HYRIS bCUBE™ control enables “in the field” bio-molecular detection
- Link each sample with photographs and GPS tags
- Start your analysis with a few touches, no need to be an expert
- Watch the detection progress in Real-Time
- Compatible with Smartphones, Tablets, PCs/Notebooks
- Runs on all Operating Systems: Windows, Linux, MacOS/iOS, Android
- Share your analyses worldwide with HYRIS bDATA™ cloud service
- Organize your HYRIS bCUBE™ in Swarms, and deploy them wherever you need
- Analyse your data, using filters and statistical tools
- Monitor and control your HYRIS bCUBE™ remotely
- Check the status and the position of your machines on a map



HYRIS bCUBE™
Ref: bCUBE 2.0 – Technical Specs

Dimensions	100 x 100 x 120 mm
Weight	1.15 kg
User Interface	HYRIS bAPP™ (Multi Platform) / HYRIS bPANEL™ (Windows PC)
Communication Interfaces	WiFi, Ethernet
Sample number	16 samples on standard cartridge (36 samples cartridge soon available)
Reaction volume	10 to 30 µl (16 wells cartridge) *
Light source	High brightness LEDs – 2 wavelengths
Excitation wavelengths	472 and 530 nm
Optical Detection	High resolution, low noise CMOS Camera (5MP)
Acquisition time	< 1s – Total time for all samples
Detected wavelengths	572 nm and 524 nm
Thermal Block	Peltier module for heating and cooling
Temperature sensor	High precision NTC resistor
Temperature resolution	< 0.05 °C
Temperature uniformity	± 0.1 °C
Temperature control range	20 – 99 °C
Temperature ramp	Up to 1.5 °C/s
Power supply	12 V – DC
Power consumption	Max 60W

* Actual sample volume required may depend on the specific analytical kit.