

London, May 2019

bCUBE®

Portable, Fast, Easy



Hyris Ltd

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WARNING AND PRECAUTIONS

Please check Kits integrity before use. Use of deteriorated Kits may cause lack of results and/or equivocal results. Do not mix the components of kits with different batch number. Do not interchange reagents with other kits, or components from different lots. Do not use reagents after their expiration date. This kit is designed to be used by personnel trained to follow correct molecular biology precautions.

WARRANTY AND RESPONSIBILITIES

Hyris Ltd guarantees the buyer exclusively concerning the quality of reagents and of the components used to produce the Kits. Any product not fulfilling the specifications included in the product sheet will be replaced. This warranty limits our responsibility to the replacement of the product. No other warranties, of any kind, express or implied, including, without limitation, implicit warranties of commercialisation ability or adequacy for a given purpose, are provided by Hyris Ltd. Hyris Ltd is not responsible and cannot anyway be considered responsible or jointly responsible for possible direct and indirect damages resulting from the utilization of the Kits by the user. The user consciously and under his/her own responsibilities decides for the utilization purposes of the Kits and uses it the way he/she considers most suitable in order to reach his/her goals and/or objectives. Hyris Ltd will not be held responsible for any direct, indirect, consequential or incidental damage resulting of the use, misuses, results of the use or inability to use any product. Some of the applications which may be performed with this product may be covered by applicable patents in certain countries. The purchase of this product does not encourage the unlicensed use of patented applications.

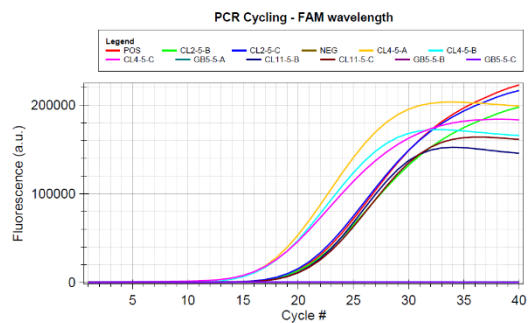
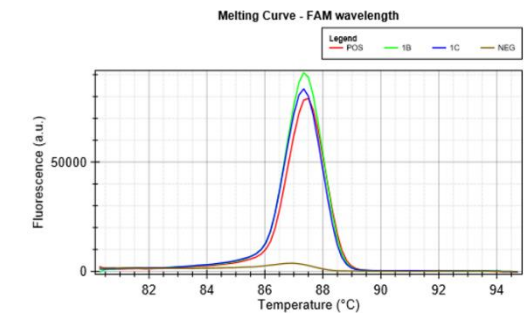
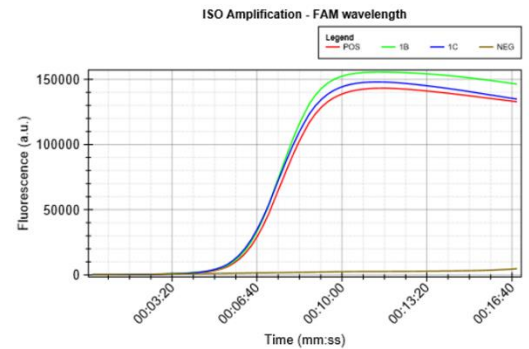
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bCUBE®

- 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
- 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 bDATA®

- Share your analyses worldwide with bDATA® cloud service
- Organize your bCUBEs in Swarms, and deploy them wherever you need
- Analyse your data, using filters and statistical tools
- Monitor and control your bCUBEs remotely
- Check the status and the position of your machines on a map



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The Kits may require the use of Taq Polymerase enzyme, DNA binding components and fluorochromes/quencher, often registered as trademark by companies. TaqMan® is a trademark of Roche Molecular Systems, Inc. FAM™, VIC®, HEX™ and ROX™ are a trademark of Thermo Fisher Scientific or its subsidiaries. SYBR is a registered trademark of Molecular Probes, Inc. (Thermo Fisher Scientific). MGB probes are a trademark of Elitech group. The Kits have been internally tested by our quality control. Any responsibility is waived if the warranty of quality control does not refer to the specific Kits. The user is personally responsible for data that he/she will obtain and/or he/she will supply to third parties using these kits. Once the sealed package is opened the user accepts all the conditions without fail; if the package is still sealed the kit can be returned and the user can be refunded. Kits components are intended, developed, designed, and sold for Research Purpose Only. Product claims are subject to change. Therefore, please refer to our website (www.hyris.net) for the most up-to-date information on Hyris Ltd products.

Get Smarter with bAPP

- Smart analysis portability with Hyris bAPP
- Wireless 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
- Live sync with bDATA® service



bPANEL

- Get full control of bCUBE® with bPANEL Windows PC interface
- Isothermal (LAMP) or Thermal Cycling (Real Time PCR) protocols supported
- Offline use supported
- Get raw data from the instrument and export it for processing with your favourite software
- Create and share custom PDF reports of your experiments



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Technical Specs

| | |
|----------------------------------|---|
| Dimensions | 100 x 100 x 120 mm |
| Weight | 1.15 kg |
| User Interface | bAPP (Multi Platform) / bPANEL (Windows PC) |
| Communication Interfaces | WiFi, Ethernet, Bluetooth |
| Sample number | 16 samples on standard cartridge, up to 49 on custom cartridges |
| Sample 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.

** Custom optical design possible upon request, up to four wavelengths capability.