Biometra
An Analytik Jena Company

TOptical | real-time PCR thermocycler

- Excitation by different colored long-lasting LEDs
- Up to 6 color modules for the detection of commonly used dyes
- User-friendly software
- Optical module retrofittable
- Superior heating and cooling rates and temperature uniformity

TOptical | New, easy real-time PCR

The TOptical thermocycler combines state of the art technology with functional design. The instrument is based on the reliable Biometra TProfessional 96 well thermocycler and provides excellent temperature uniformity and high speed due to the excellent heat conductivity of the silver block with max. heating and cooling rates of 6.0 °C/sec* and 4.5 °C/sec*. Excitation of fluorophores by three long-living LEDs* allows to monitor PCR reactions in real-time with high specificity and lowest detection limits. By the intuitive, easy to use software the system can be operated also by users having little or even no experience with real-time PCR.

The TOptical nevertheless also provides advanced analysis tools that are expected by experienced users. The instrument accommodates either probe-based or SYBR® Green I dye assay chemistry. It is an open platform and not restricted to real-time PCR Kits or plates from specific vendors.

- Real-time PCR extremely simple and fast
- Reliable Biometra thermocycler technology
- Long-living LED technology
- Open platform

TOptical module

Intuitive Software

The TOptical software delivers all functions experienced users expect. The well arranged software structure allows easy design of real-time PCR protocols and monitoring of runs. User friendly tools for relative and absolute quantifications, melting curve analysis and allelic discrimination are designed for fast data analysis. Data can be exported in different formats for further analysis by software tools like Excel, qBase, Biogazelle or REST. The TOptical thermocycler additionally permits GLP compliant documentation of experiments.

- Easy setup of experiments
- Fast data analysis
- Multiple software export tools
- GLP compliant documentation of runs

* preliminary technical data

This product is distributed by

Upgrade of existing thermocyclers and future options

Biometra TProfessional thermocyclers can be upgraded with the TOptical module to a real-time PCR instrument. Simply exchange the TProfessional block module for the TOptical module, connect the thermocycler to the computer and get started – it's so easy.

The TOptical thermocycler can be equipped with up to 6 excitation and emission filters of choice. Several filters for commonly used real-time PCR dyes are available covering a broad spectrum of excitation and emission maxima and in addition special filter combinations for FRET applications. The filters are easily interchangeable keeping the instrument open for versatile real-time PCR applications and future adaptations.

- Upgrade of TProfessional thermocyclers
- Up to 6 excitation and emission filters
- Read-out of all commonly used real-time dyes
- Open for future adaptations

This is a Licensed Real-Time Thermal Cycler(s) or Licensed Real-Time Temperature Cycling Instrument(s) under ABI's United States Patent No. 6,814,934 and corresponding claims in non-U.S. counterparts thereof, for use in research and for all other applied fields except human in vitro diagnostics. No right is conveyed expressly, by implication or by estoppel under any other patent claim.

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Subject to changes in design and scope of delivery as well as further technical development!