

QIAamplifier 96 end-point PCR cycler

Overview

Features

High-Accuracy
Block Control

Reproducibility
and
Robustness

Whisper
Quiet

Technical
Specifications

Performance
Data

Ordering
Information



Overview

The QIAamplifier 96 is a high performance system for all end-point PCR requirements

Features

High-Accuracy
Block Control

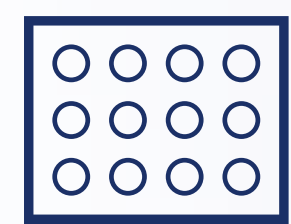
High heating and cooling rates of up to 4°C/sec

Reproducibility
and
Robustness

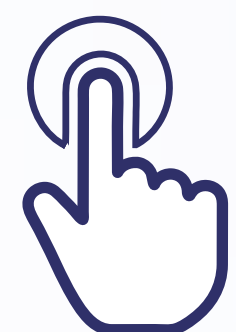
Linear gradient function for assay optimization

Whisper
Quiet

Accurate block control and temperature uniformity

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Compatible 96-well plates

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7-inch color touchscreen and an easy-to-use software interface

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Fast ramping, high-accuracy block control

The QIAamplifier 96 controls the sample block temperature without under- or overshooting the programmed target temperature.

- High heating and cooling rates of up to 4°C/s for short protocol run times
- Temperature uniformity down to $\pm 0.2^{\circ}\text{C}$ at 55°C after 15 s
- Linear Gradient Tool (20°C gradient span with 0.1°C increments)
- Reaction mix reaches set target temperature asymptotically for best match of set and real data

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High reproducibility and robustness

Reproducibility:

- Heated with temperature range from 30°C to 110°C
- Slip clutch always maintains constant contact pressure, regardless of shape and height of the plasticware

Ease of use:

- Pre-installed program templates
- Direct spreadsheet and graphical multistep programming to quickly edit all parameters for every program step within a single screen

Robustness:

- The space surrounding the sample block is sealed to increase temperature uniformity and prevent condensation and corrosion
- A short equilibration period during the first heating of the lid also contributes to a completely balanced atmosphere above the sample block

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Whisper quiet

The airflow of the QIAamplifier 96 is optimized to keep the maximum noise level of the instrument down to an extremely low 45 decibels. This efficient airflow system also means that the cycler takes up very little space.



Overview of technical specifications

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	QIAamplifier 96
Catalog number	QIAamplifier 96, 115 V: 9002990; QIAamplifier 96, 230 V: 9002991
Capacity	96 x 0.2 ml tubes, 96 well micro plates or 8 well strips
Block material	Aluminum
Block coating	Special alloy
Max. heating rate*	4.0°C/sec
Max. cooling rate*	3.3°C/sec
Avg. heating rate*	3.7°C/sec
Avg. cooling rate*	3.0°C/sec
Max./min gradient	20°C/0.1°C
Gradient temperature range†	20°C to 99°C
Temperature uniformity	95°C: +/- 0.6°C after 15 s; 72°C: +/- 0.3°C after 15 s; 55°C: +/- 0.2°C after 15 s
Temperature range	3°C to 99°C
Control accuracy	+/- 0.1°C
Software	User-specific quick start option for the five most recent programs; program preview before start; option for toggling between programming table and graph programming mode; Linear Gradient Tool, service info file (SINF) generation; expanded self-test; adjustable ramp rates; gradient temperature diagram view
Program memory	Total capacity of 350 programs in up to 90 user directories
Language	English
Display	7" color touchscreen
Automatic restart after power failure	Yes
HPSL technology	Yes
Heated lid	Yes
Lid temperature range	30°C to 110°C
Power consumption	550 watt
Operating voltage	115, 230 Volt, 50/60 Hz
Noise emissions	Very low, max. 45 dB
Interfaces†	USB A
Environmental conditions	15°C to 35°C, 70 % air humidity, max. 2,000 m above sea level
Dimensions (WxDxH)	260 mm x 430 mm x 210 mm
Dimensions (WxDxH) with open lid	260 mm x 430 mm x 385 mm
Weight	11.5 kg

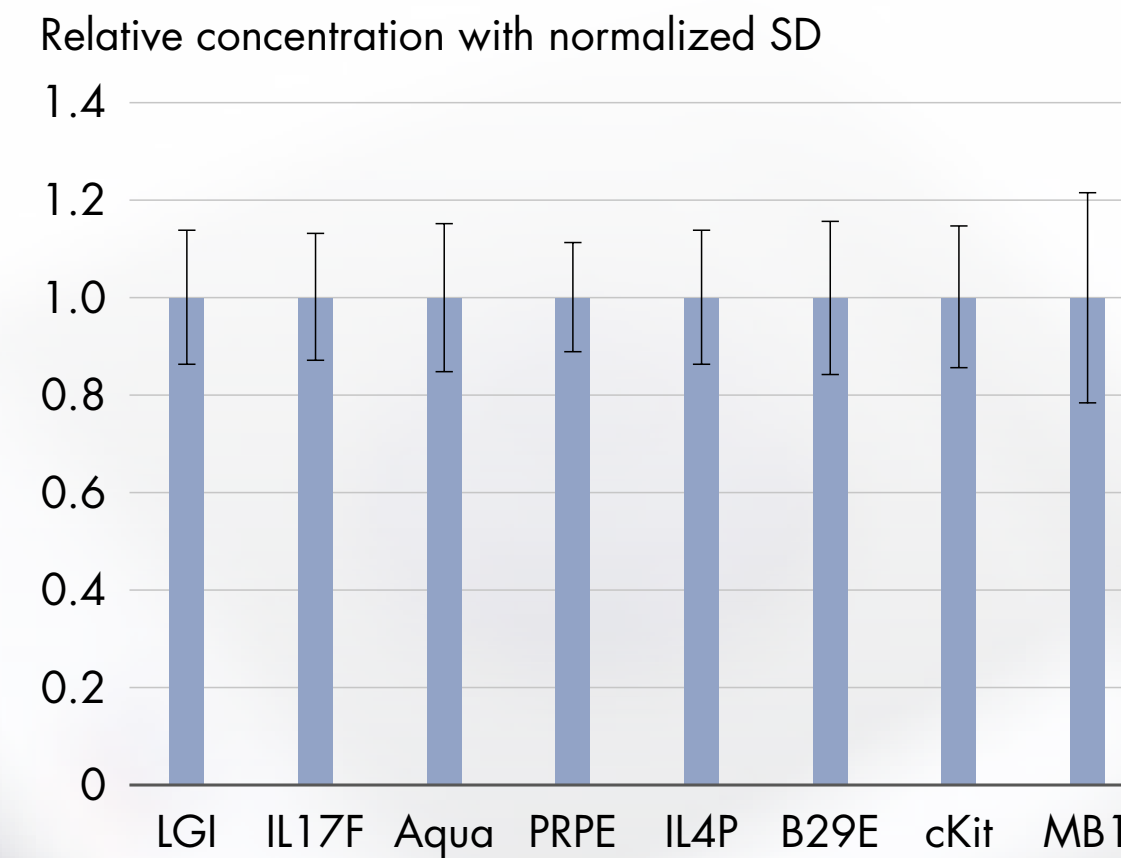
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Performance data

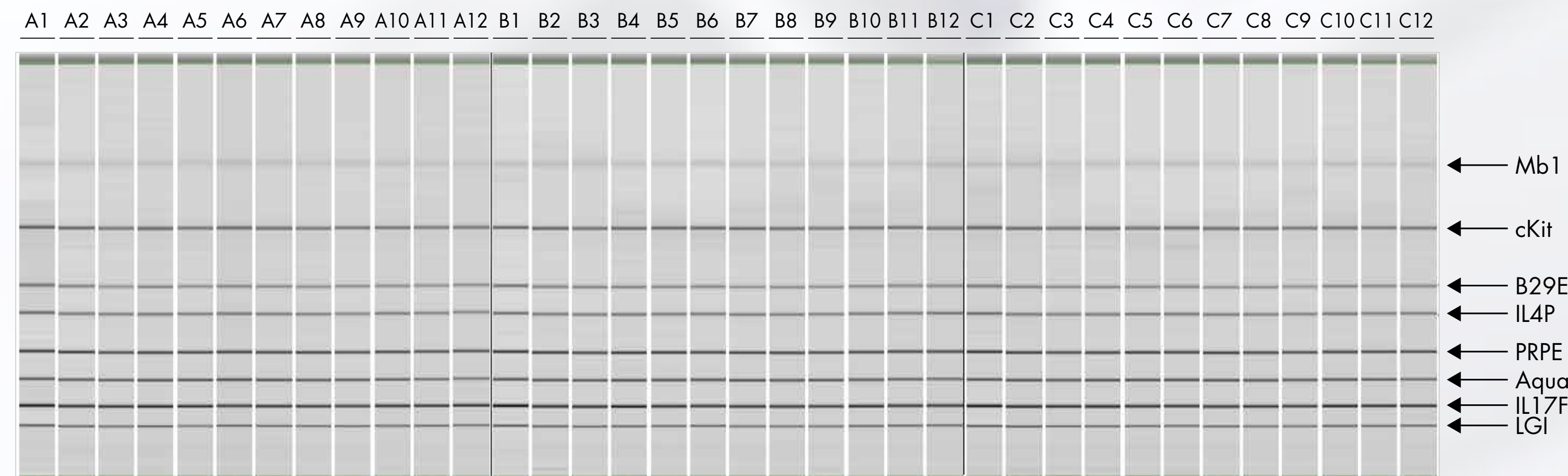
A

Target	Average concentration (ng/μl)	SD
LGI	1.26	0.17
IL17F	3.00	0.39
Aqua	1.67	0.25
PRPE	2.10	0.23
IL4P	0.97	0.13
B29E	0.75	0.12
cKit	1.16	0.17
MB1	0.21	0.04

B



C



Multiplex co-amplification and detection of 8 targets ranging from 123 bp to 610 bp using QIAGEN UCP Multiplex PCR Kit. 96 multiplex PCR reactions were setup according to kit's recommendation in a 96-well plate on the QIAamplifier 96. **A** Average concentration and standard deviation of the 8 targets. **B** Normalized concentration of targets with standard deviation. **C** Gel views of samples rows A, B and C using the QIAxcel DNA High Resolution Kit on the QIAxcel Advanced capillary electrophoresis instrument.

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Product	Contents	Cat. no.
<u>QIAamplifier 96, 115 V</u>	Fast cycling, high performance thermocycler with a 96-well block and a color touchscreen interface for end-point PCR requirements. 115 V power specification	9002990
<u>QIAamplifier 96, 230 V</u>	Fast cycling, high performance thermocycler with a 96-well block and a color touchscreen interface for end-point PCR requirements. 230 V power specification	9002991



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