



Sample to Insight





The QIAquant instruments combine a high-performance thermal block with fast and sensitive detection of PCR products



Fast cycling time, down to 30 minutes



High temperature ramping rates and gradient function

Available in three different configurations to match different requirements in term of multiplexing capacity, throughput and budget

QIAquant

Multiplex capacity	2plex
Block capacity	96 sample
Operation	Touchscree

Sample to Insight



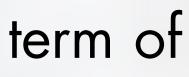
Multiplex detection of up to 5 different targets



Temperature uniformity down to $0.15^{\circ}C$ at $55^{\circ}C$

t 96 2plex	QIAquant 96 5plex	QIAquant 384 5p	
	5plex	5plex	
es	96 samples	384 samples	
en and/or PC	Touchscreen and/or PC	PC	



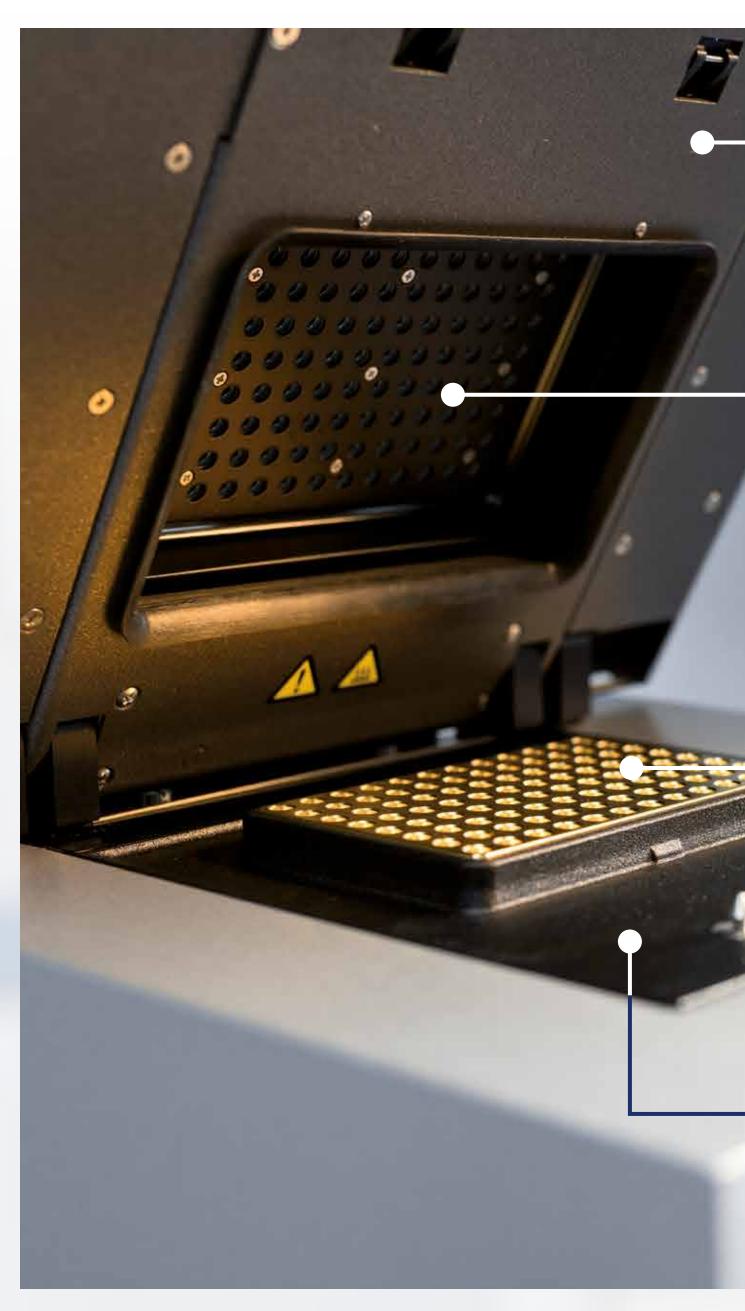








An all-round system designed for performance



9	Fast fiber-optic shuttle system
10	6 seconds read-out for entire plate regardles number of filters
	Motorized heated lid
	Applies homogenous pressure and can be a from 30°C to 110°C
	SBS sample-block
	High thermal conductivity provides outstandi uniformity, heating and cooling ramping rate Compatible with standard SBS plates, strips
	Fast cycling thermal block with gradient func
	Temperature range of 4 – 99°C with heating rate up to 8°C/s

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Ordering Information

Fast and sensitive fiber-optic shuttle system



Fast cycling time, down to 30 minutes

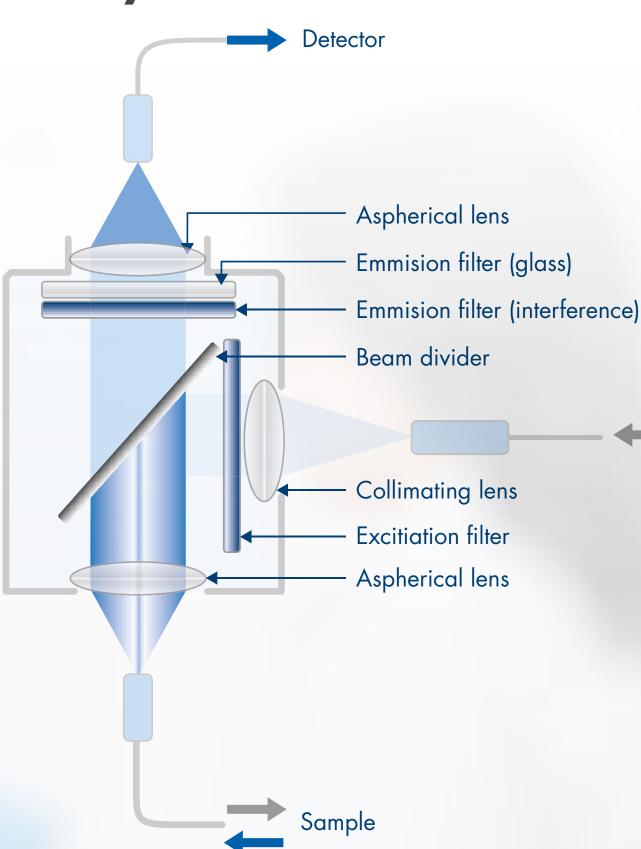


Fast read-out time for an entire plate in only 6 seconds regardless of the number of filters used

Up to five color modules for multiplexing

Channel	Excitation (nm)	Detection (nm)	Examples of fluorophores de
Blue	465±15	524±12	FAM™, SYBR® Green, EvaG
Green	510±15	565±15	JOE [™] , HEX [™] , VIC [®]
Orange (5plex versions only)	560±15	610±15	ROX [™] , Texas Red [®]
Red (5plex versions only)	625±10	680±15	Cy5 [®] , Alexa Fluor [®] 64
NIR 1 (5plex versions only)	625±10	710±20	Cy5.5 [®] , Quasar [®] 705

Sample to Insight





Light source



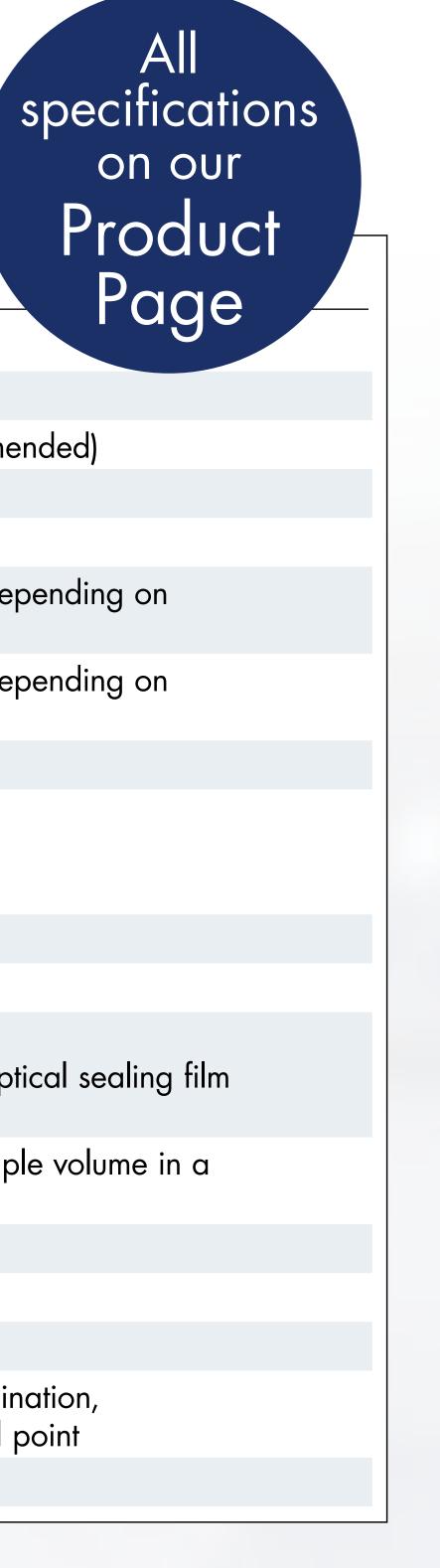
	Name
QIAquant Instruments	Block format Block materials
	Sample volume
Outstanding Thermal Performance	Lid temperature Temperature gradient
renormance	Max. heating rate*
Fast and Sensitive	Max. cooling rate*
Detection	Heating rate adjustment
Technical	Temperature uniformity (15 s after starting the cloc
Specifications	Temperature range
	Temperature accuracy
lock niformity	Supported plastic products
.5-fold	Sensitivity
ilutions	Dynamic range
esolution	Light source
	Detector
Prdering Iformation	Analysis methods
	Export functions

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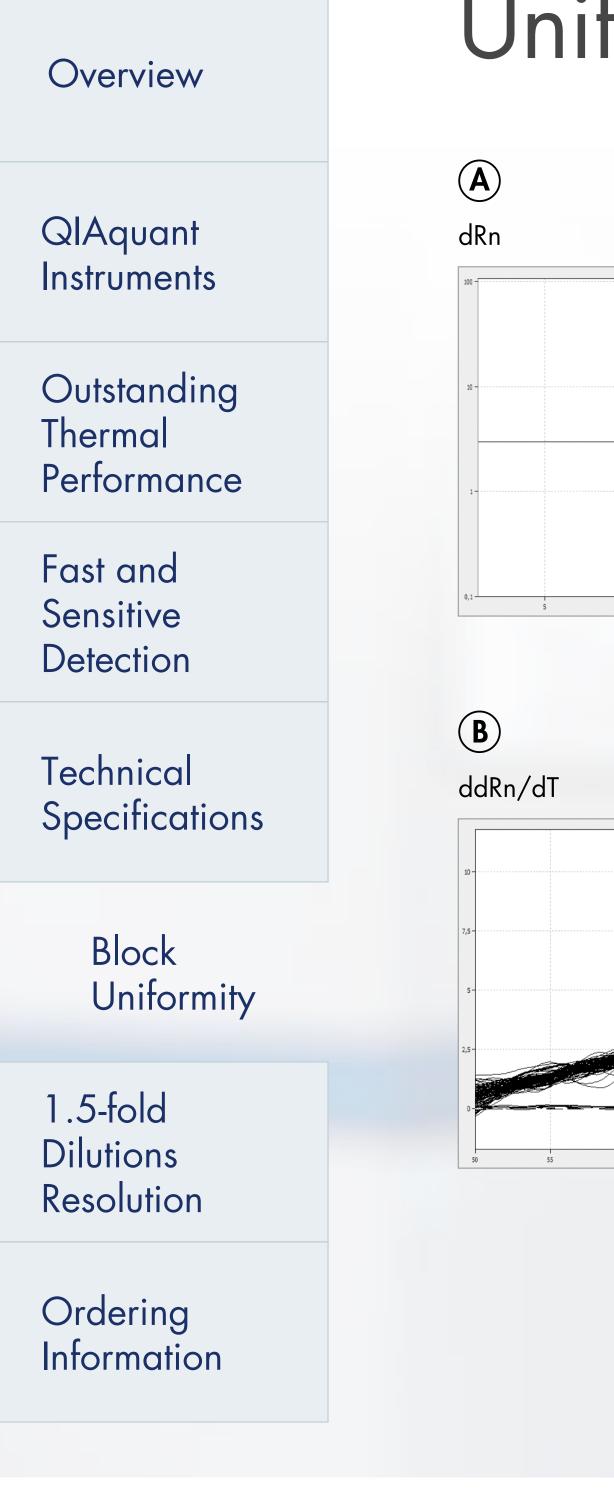
Name	QIAquant 96 (2plex and 5plex)	QIAquant 384 5plex
Block format	96 wells	384 wells
Block materials	Silver sample block with gold coating	Aluminum, special alloy
Sample volume	5–100 µl (10 to 80 µl recommended)	2–30 µl (5 to 20 µl recommended)
Lid temperature	30	D-110°C
Temperature gradient	40°C (0.1°C steps)	25°C (0.1°C steps)
Max. heating rate*	max. 8°C/s, av. 7°C/s (depending on consumables used)	max. 4°C/s, av. 3.8°C/s (depending a consumables used)
Max. cooling rate*	max. 6°C/s, av. 5.5°C/s (depending on consumables used)	max. 2°C/s, av. 1.7°C/s (depending a consumables used)
Heating rate adjustment	mir	n. 0.1°C/s
Temperature uniformity (15 s after starting the clock)	±0.25	5°C at 55°C 5°C at 72°C D°C at 95°C
Temperature range	3°C	C – 99°C
Temperature accuracy		0.1°C
Supported plastic products	96-well micro titer plates with optical film, 8-well strips 0.2 ml with optical lids, 0.2 ml individual vessels with optical lids	384-well PCR plates with optical sealir
Sensitivity	1 nmol/l FAM at 30 µl sample volume in a 96-well PCR plate	1 nmol/l FAM at 30 µl sample volume 384-well PCR plate
Dynamic range	10	log stages
Light source	Four high-intensity LE	Ds (blue, green, white, red)
Detector	Photomultiplier (PMT)	
Analysis methods	Absolute quantification, relative quantification, ΔΔCt method, allelic discrimination, efficiency calculation, DNA melting curves, POS/NEG analysis in the end point	
Export functions	Excel, CSV, L	IMS, GenEx, qBase

Sample to Insight

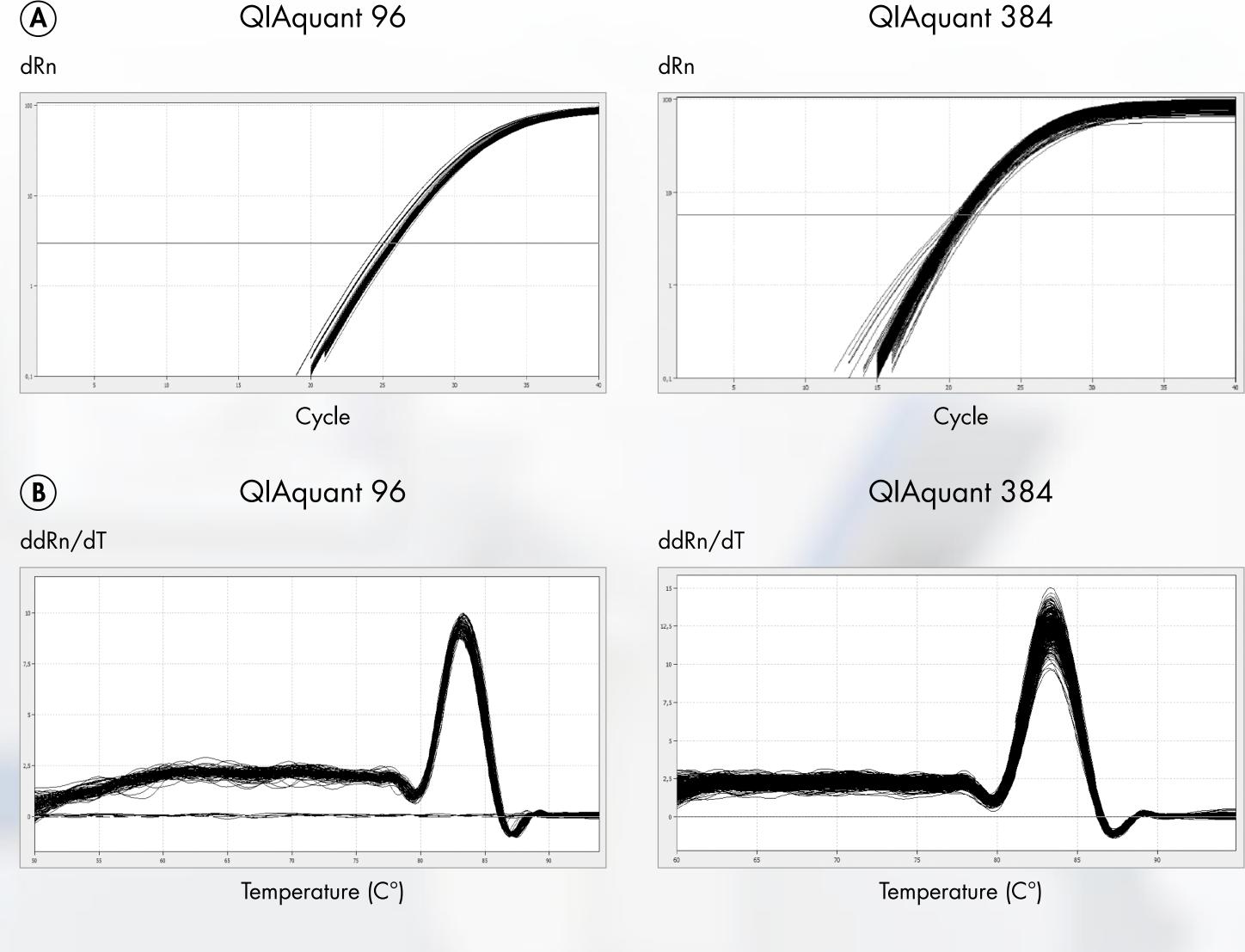
ical	specifications
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Uniformity



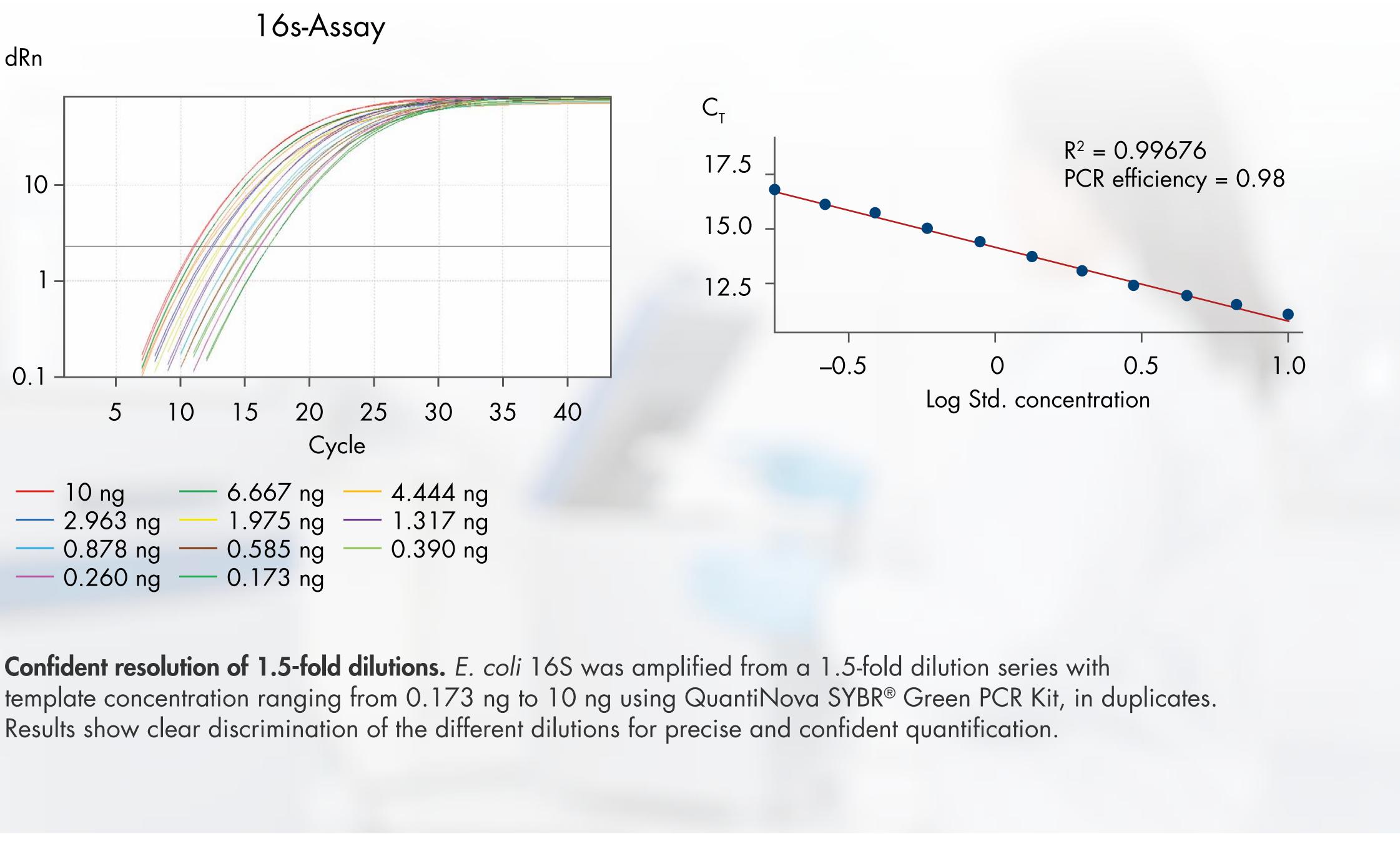
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Block uniformity on the QIAquant 96 and QIAquant 384. Amplification curves A and melting curves B of respectively 96 and 384 replicates on QIAquant 96 and QIAquant 384. Real-time PCR was done using 100 ng of *E.coli* DNA in each of the 96 and 384 block positions. (A) Amplification curves of a 300 bp amplicon of the 16S using QuantiNova SYBR[®] Green PCR Kit. (B) melting curve analysis of the amplicons. Low variation of Cq values (SD < 0.2) and Tm of the melt curves (SD < 0.1) demonstrate demonstrated temperature uniformity across the block of the QIAquant 96 and QIAquant 384.





1.5-fold dilutions resolution



Sample to Insight





Overview	
	P
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Thermal Performance	G
Fast and Sensitive	G
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	<u>q</u> s
Block	
Uniformity	<u>q</u> <u>s</u>
1.5-fold	g

Dilutions Resolution

> Ordering Information

Ordering Information

Product <u> 2|Aquant 96 2plex (115V)</u>

<u> QIAquant 96 2plex (230V)</u>

QIAquant 96 5plex (115V)

<u> QIAquant 96 5plex (230V)</u>

<u> QIAquant 384 5plex (115V)</u>

<u> QIAquant 384 5plex (230V)</u>

PCR 384-well plate white, kirted (10) PCR 96-well plate white, kirted (10)

PCR adhesive plate foil (100)

Contents

High performance real-time PCR thermal cycler with 2plex detection system, 96-well block, software, and touchscreen interface. 115V power specification High performance real-time PCR thermal cycler with 2plex detection system, 96-well block, software, and touchscreen interface. 230V power specification High performance real-time PCR thermal cycler with 5plex detection system, 96-well block, software, and touchscreen interface. 115V power specification High performance real-time PCR thermal cycler with 5plex detection system, 96-well block, software, and touchscreen interface. 230V power specification High performance real-time PCR thermal cycler with 5plex detection system, 384-well block and software. 115V power specification

High performance real-time PCR thermal cycler with 5plex detection system, 384-well block and software. 230V power specification

384-well qPCR plate, white, skirted (10)

96-well qPCR plate, white, skirted (10)

Adhesive foils for qPCR plates (100)

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor. Trademarks: QIAGEN[®], Sample to Insight[®], QIAquant[®] (QIAGEN Group). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, may still be protected by law. © 2020 QIAGEN, all rights reserved. PROM-15986-001 03/2020

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QIAquant real-time PCR cyclers

Iry a QIAquant yourself Request a Demo



