

QuantiNova Probe PCR Kit

Ultrafast, highly sensitive and specific, probe-based real-time PCR

Overview

Procedure

Stringent hot start

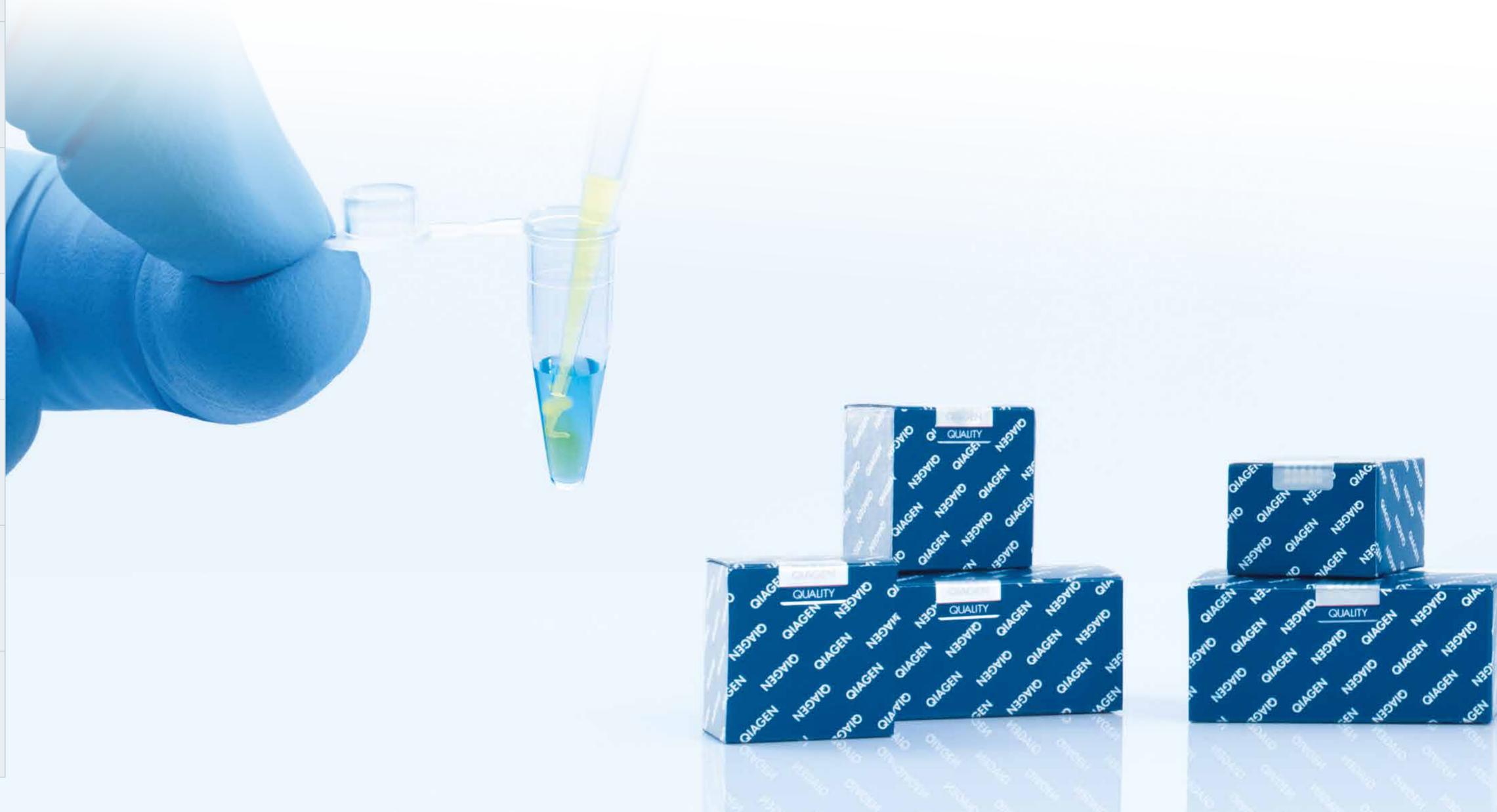
Single copy detection

Detect 2 targets per well

Superior precision

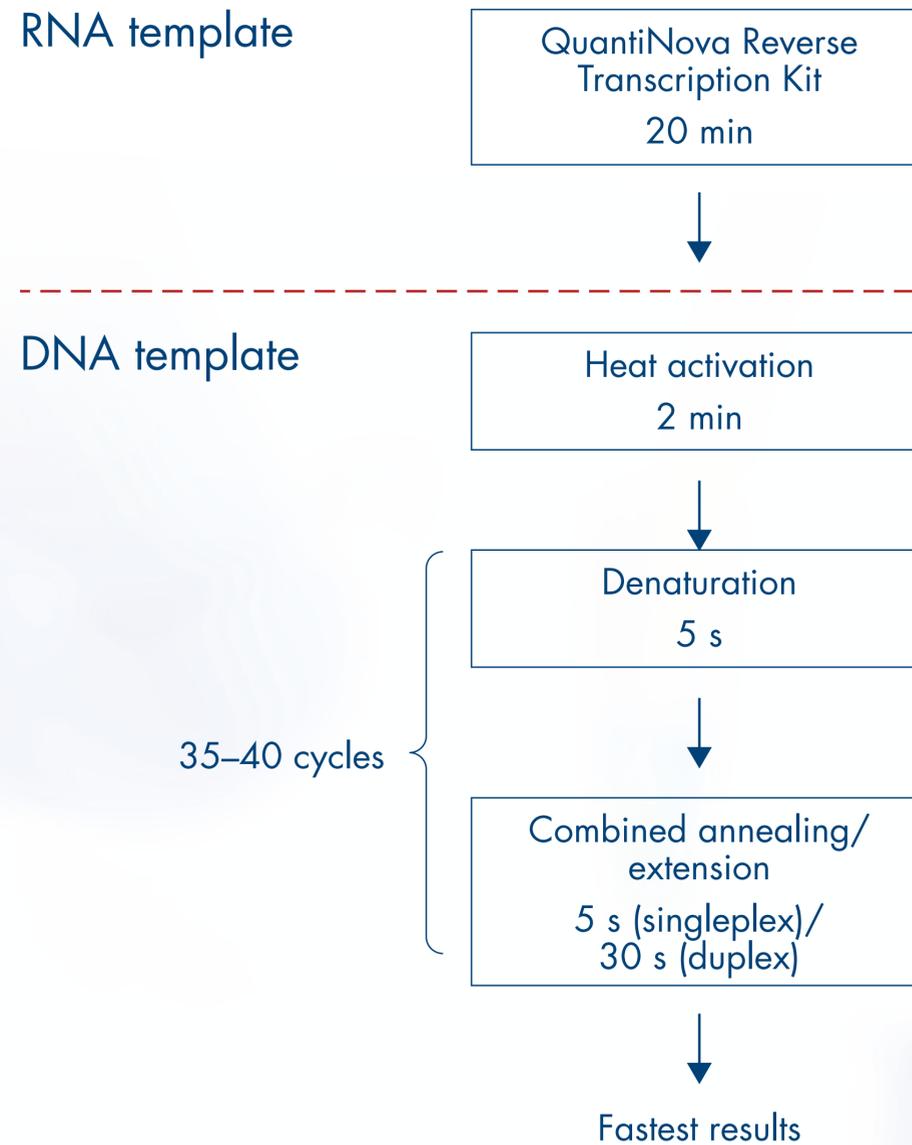
Long-term reaction stability

Ordering information



Ultrafast procedure with built-in pipetting control

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 [Download Quick-Start Protocol](#)

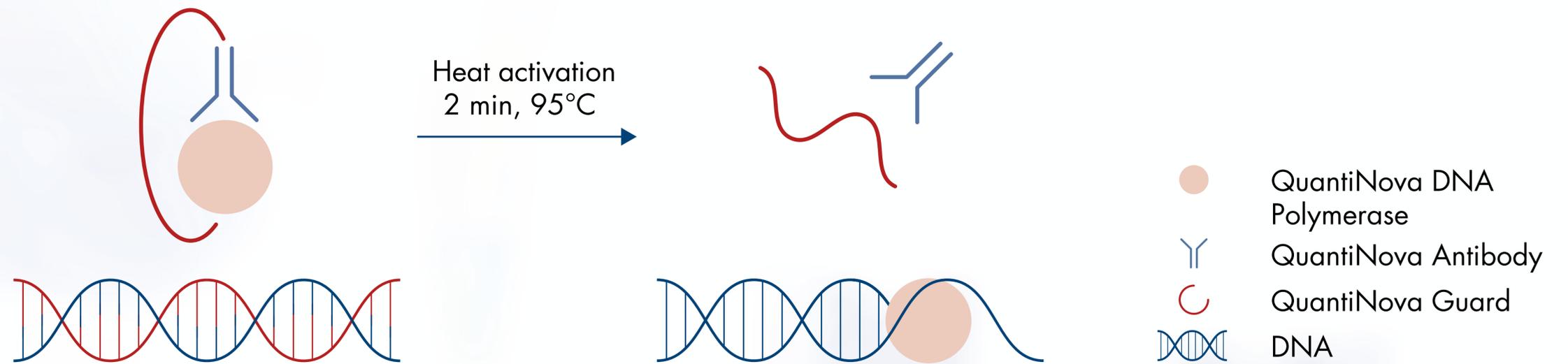
- Unmatched throughput and speed with ultrafast cycling
- Simple, color change verifies correct pipetting

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True, room-temperature setup with antibody-mediated hot start

Inactive QuantiNova DNA Polymerase

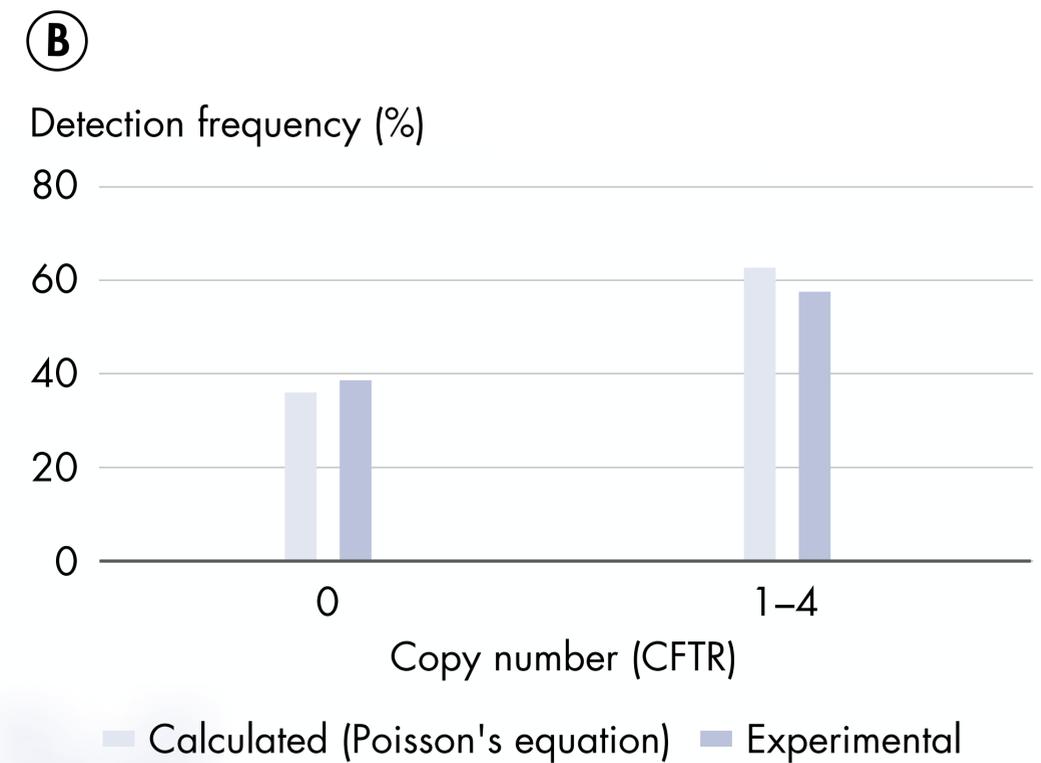
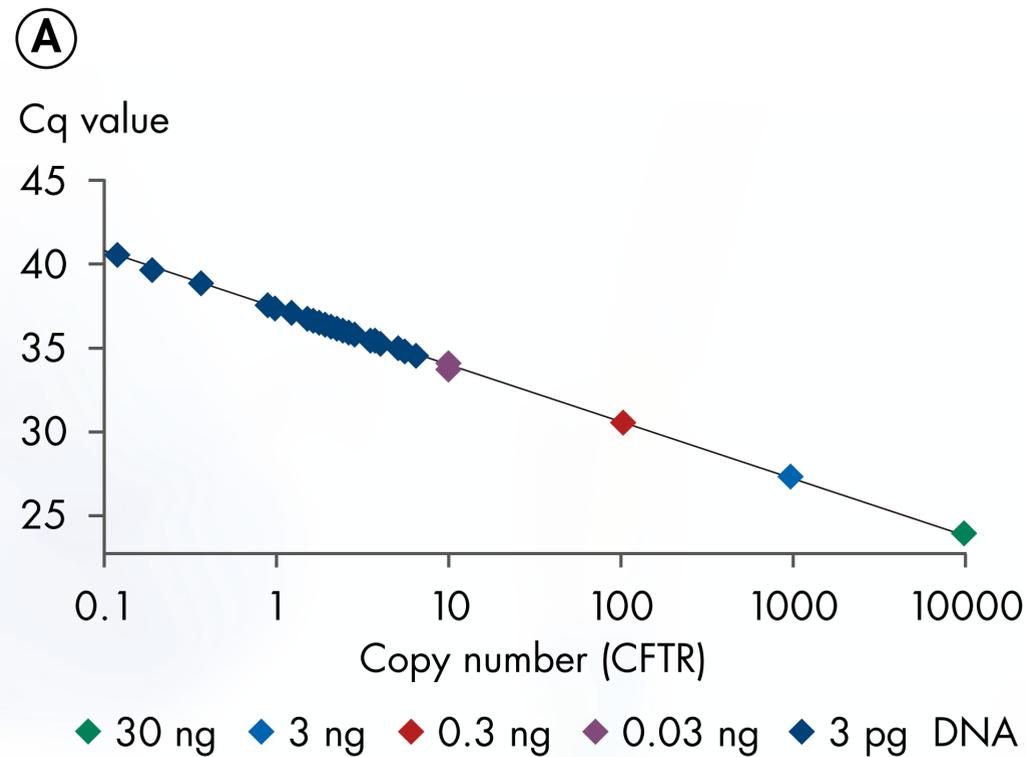
Active QuantiNova DNA Polymerase



Our stringent hot start prevents primer dimer formation and extension of non-specific products

Sensitive detection of a single DNA molecule

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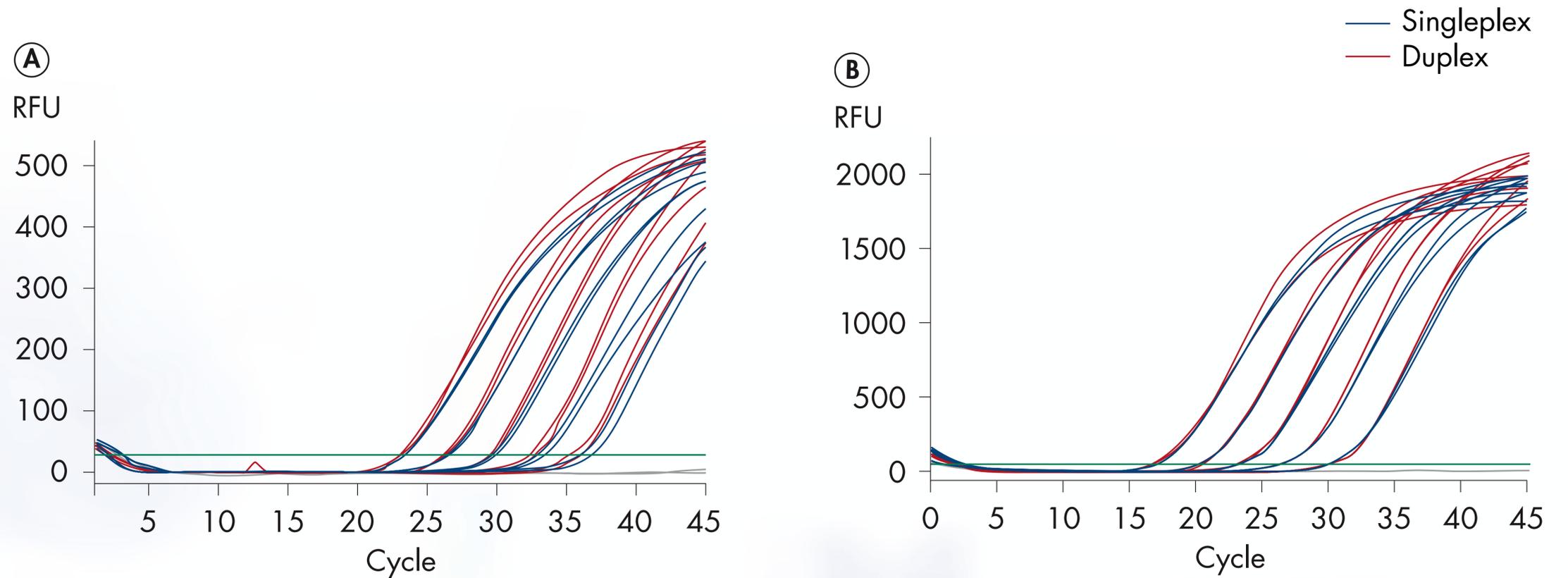
Extremely high sensitivity demonstrated by the comparability of the experimental and calculated detection frequencies.



Robust and sensitive detection of single-copy targets

Reliable detection of 2 targets in the same reaction

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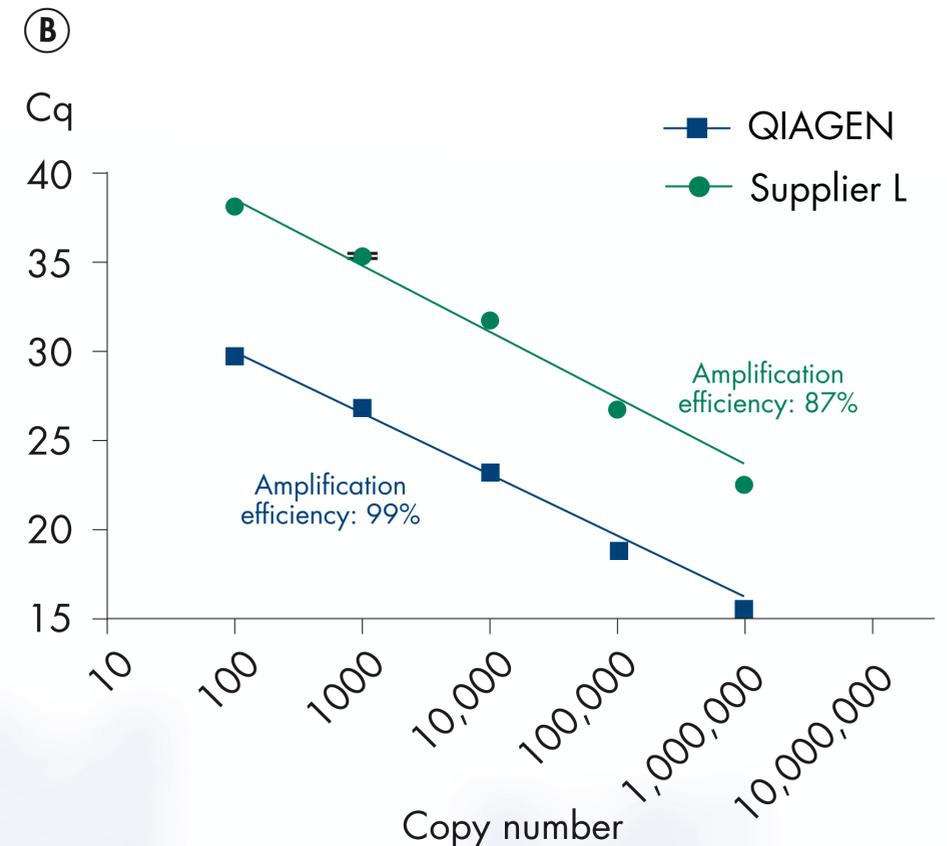
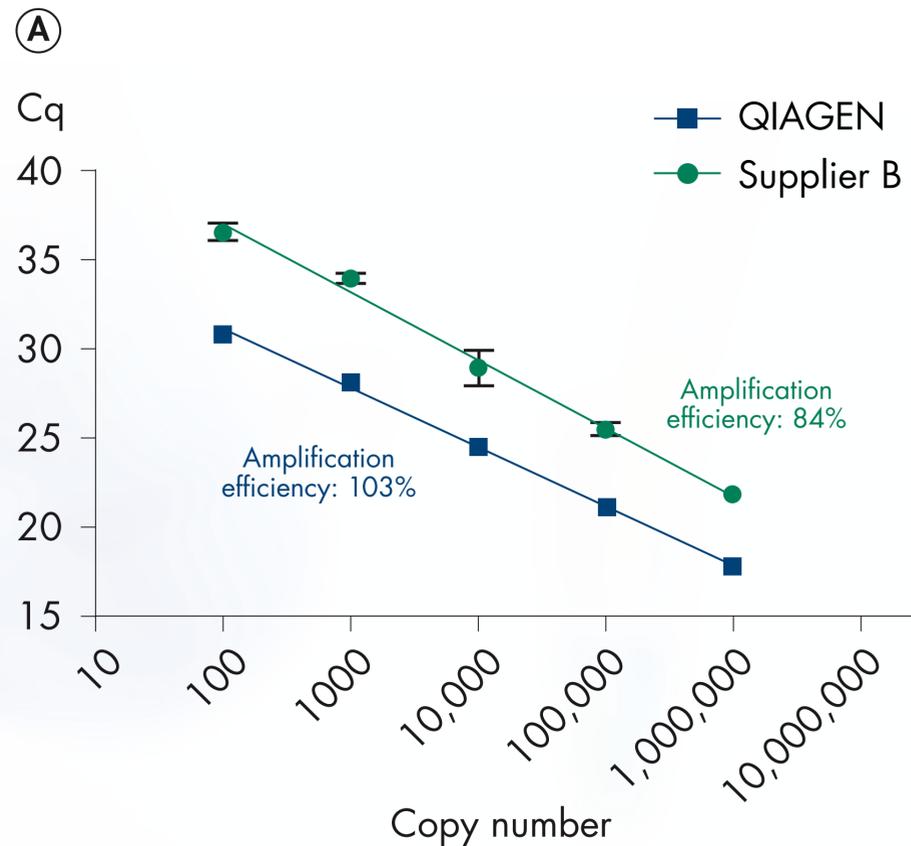


A TNF **B** GAPD singleplex and duplex reactions. Ten-fold dilutions of leukocyte DNA (from 100 ng to 10 pg) were assayed.

Comparable, reliable results in duplex and singleplex PCR

Superior performance with difficult targets

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Ten-fold dilutions of plasmid DNA were used to detect a 500 bp amplicon, using a minor-groove binding probe.



Precise results even with challenging assays

Automation-ready, long-term, room-temperature stability

ng	Mean Cq values			
	QuantiNova Probe PCR Kit		Probe PCR kit from supplier L	
	0 h	100 h	0 h	100 h
10	24.37	24.49	24.35	27.49
1	27.78	27.90	27.77	30.97
0.1	31.16	30.98	31.37	34.48
No template	Not detected	Not detected	Not detected	Not detected

Real-time PCR reactions including master mix, cDNA, primers and probes for TNF were incubated at 30°C for 100 hours and run alongside freshly prepared reactions.

Long-term
Reaction
Stability

Ordering
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No performance loss after storage at 30°C for 100 hours

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Product	Description	Cat. no.
<u>QuantiNova Probe PCR Kit (100)</u>	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 250 µl QN ROX Reference Dye, 500 µl QuantiNova Yellow Template Dilution Buffer, 1.9 ml Water	208252
<u>QuantiNova Probe Kit (500)</u>	For 500 x 20 µl reactions: 3 x 1.7 ml 2x QuantiNova Probe PCR Master Mix, 1 ml QN ROX Reference Dye, 500 µl QuantiNova Yellow Template Dilution Buffer, 1.9 ml Water	208254
<u>QuantiNova Probe Kit (2500)</u>	For 2500 x 20 µl reactions: 15 x 1.7 ml 2x QuantiNova Probe PCR Master Mix, 5 x 1 ml QN ROX Reference Dye, 5 x 500 µl QuantiNova Yellow Template Dilution Buffer, 5 x 1.9 ml Water	208256

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.

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