

KAPA Taq PCR Kits

High quality and performance for routine PCR

KAPA Taq DNA Polymerase is based on the single-subunit, wild-type *Taq* DNA polymerase of the thermophilic bacterium *Thermus aquaticus*. KAPA Taq and KAPA Taq HotStart DNA Polymerase have 5'→3' polymerase and 5'→3' exonuclease activities, but no 3'→5' exonuclease (proofreading) activity. The enzyme has an error rate of approximately 1 error per 2.2×10^5 nucleotides incorporated.

Kits are ideally suited for:

- standard PCR
- DNA labelling
- DNA sequencing
- numerous applications for which a high-quality, thermostable DNA polymerase is required

High performance

- Improved sensitivity, specificity, and yields
- Novel buffer formulation facilitates specific primer annealing, leading to higher yield of specific product

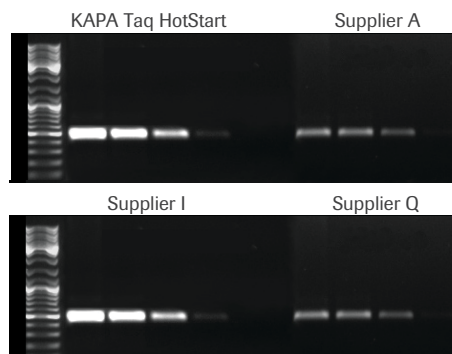


Figure 1. Improved sensitivity, specificity, and yield. A 500 bp fragment of the CCR5 gene was amplified using 100 ng, 10 ng, 1 ng, or 100 pg of human genomic DNA as template. KAPA Taq HotStart exhibits improved sensitivity, specificity, and yield when compared with competitive HotStart products. All reactions were performed using the manufacturer recommended protocols.

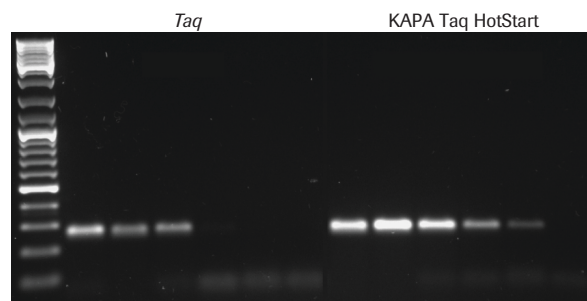


Figure 2. *Taq* and KAPA Taq HotStart. A 270 bp amplicon was amplified from mycoplasma DNA with KAPA Taq or KAPA Taq HotStart. Sensitivity was tested using a 10X template dilution series starting with 1 ng of DNA.

Ordering information

Roche cat. no.	KAPA code	Description	Kit size
07958447001	BK1000	KAPA Taq PCR Kit	2500 Units
07958455001	BK1001	KAPA Taq PCR Kit, with dNTPs	2500 Units
07958463001	BK1002	KAPA Taq PCR Kit	5000 Units
07958471001	BK1003	KAPA Taq PCR Kit, with dNTPs	5000 Units
07958498001	BK1004	KAPA Taq PCR Kit, with dye	2500 Units
07958501001	BK1005	KAPA Taq PCR Kit, with dye, with dNTPs	2500 Units
07958510001	BK1006	KAPA Taq PCR Kit, with dye	5000 Units
07958528001	BK1007	KAPA Taq PCR Kit, with dye, with dNTPs	5000 Units
07958552001	KK1008	KAPA Taq PCR Kit, with dNTPs	250 Units
07958579001	KK1014	KAPA Taq PCR Kit	250 Units
07958587001	KK1015	KAPA Taq PCR Kit	500 Units
07958595001	KK1016	KAPA Taq PCR Kit, with dNTPs	500 Units
07958617001	KK1020	KAPA Taq PCR Kit, with dye	250 Units
07958625001	KK1021	KAPA Taq PCR Kit, with dye, with dNTPs	250 Units
07958633001	KK1022	KAPA Taq PCR Kit, with dye	500 Units
07958641001	KK1023	KAPA Taq PCR Kit, with dye, with dNTPs	500 Units
07958765001	KK1508	KAPA Taq HotStart PCR Kit	250 Units
07958773001	KK1509	KAPA Taq HotStart PCR Kit, with dNTPs	250 Units
07958781001	KK1510	KAPA Taq HotStart PCR Kit	500 Units
07958790001	KK1511	KAPA Taq HotStart PCR Kit, with dNTPs	500 Units
07958803001	KK1512	KAPA Taq HotStart DNA polymerase, enzyme only	2500 Units
07958811001	KK1513	KAPA Taq HotStart PCR Kit	2500 Units
07958536001	KK1006	KAPA Taq ReadyMix, 250 x 50 µL reactions	6.25 mL
07958650001	KK1024	KAPA Taq ReadyMix with dye, 250 x 50 µL reactions	6.25 mL

Published by:

Roche Sequencing and Life Science

9115 Hague Road
Indianapolis, IN 46256

sequencing.roche.com

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