

illustra rTaq DNA Polymerase

Product Specification Sheet

Introduction

Product codes

27079804

27079805

27079806

Important

Read these instructions carefully before using the products.

Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

Safety

For use and handling of the products in a safe way, refer to the Safety Data Sheets.

Storage

Store at -15°C to -30°C

Expiry

For expiry date please refer to outer packaging label.

Recommended PCR Conditions

Note: *Performance has been optimized using the 10× PCR buffer supplied.*

Note: *These are general recommendations. Exact PCR conditions for each system must be determined empirically.*

- > 5 ng of human genomic DNA; amount varies with other templates
- 2.5 µL of 10× PCR Buffer (supplied)
- X µL of 25 mM MgCl₂ (optional)¹
- 200 µM final concentration of each nucleotide
- 10 pmol of each primer
- 1 unit of Taq DNA Polymerase
- PCR grade water to a final volume of 25 µL

Recommended thermocycling conditions

Note: *These are general recommendations. Exact thermocycling conditions for each system must be determined empirically.*

95°C, 3 minutes, followed by 35 cycles of:

95°C, 30 seconds; 55-58°C, 1 minute; 72°C, 2 minutes

Note: *Extension times of at least 1 minute per Kb are recommended.*

¹ The optimal concentration of MgCl₂ in the PCR reaction may vary depending on the composition, concentration, and source of template and primers. Generally in range of 1.5-4 mM. To increase final concentration above 1.5 mM, add appropriate volume of 25 mM MgCl₂.

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