



PRODUCT INFORMATION

10x Taq Buffer KCl and MgCl₂

Product information for PCRB16:

Product Description

Suitable for use with magnesium chloride (Product No. MB1193) in optimizing the Polymerase Chain Reaction (PCR).

Composition of the 10X concentrate

100 mM Tris-HCl, pH 8.8 at 25 °C

500 mM KCl

0.8% (v/v) Nonidet P40

15mM MgCl₂

PCR Suitability

10X PCR Buffer was tested at a final concentration of 1X (10 mM Tris-HCl, pH 8.8 at 25 °C, 50 mM KCl, 0.8% (v/v) Nonidet P40), 1.5mM MgCl₂ in reactions containing each dNTP at 200 µM, primers defining an approximately 500 base pair region of λ DNA at 1.0 µM each, λ DNA template at 1 ng/100 µl, and *Taq* DNA polymerase at 2.5 units/100 µl. The reaction underwent 25 cycles of 94 °C to denature the double stranded DNA, 55 °C to anneal the DNA segments, and 72 °C to extend the DNA segments. Following electrophoresis of the reaction products in 1.5% agarose gel, a single band of approximately 500 base pairs was visualized for PCRs containing 1-1.5 mM MgCl₂.

Storage:

Store at -20 °C