GoTaq® PCR Core Systems

INSTRUCTIONS FOR USE OF PRODUCTS M7660, M7665, M7650 AND M7655.

Quick PROTOCOL

PCR Protocol

Protocol

1. Combine the following components in a sterile 0.5–0.6ml microcentrifuge tube. The reaction volume can be scaled as long as the final concentrations remain constant.

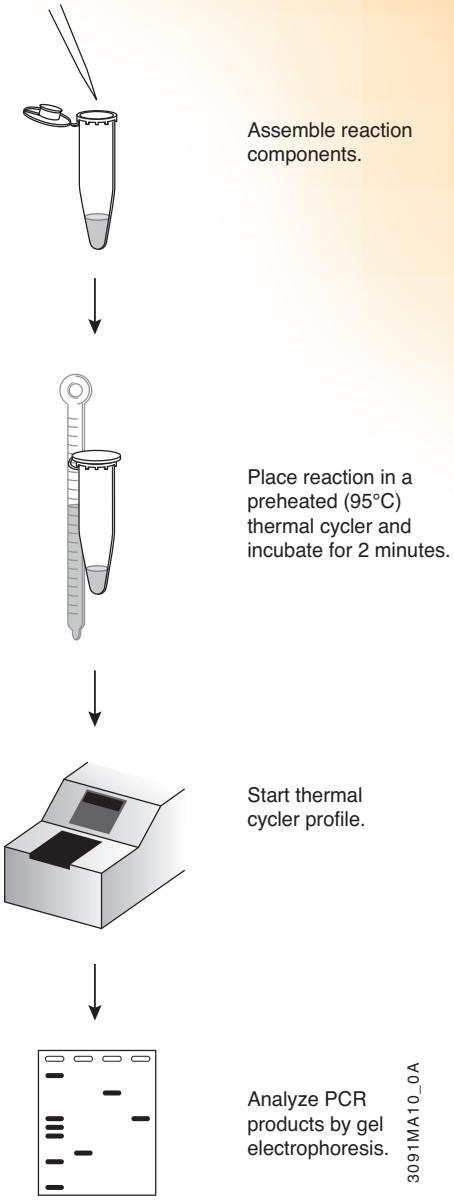
Component	Component Volume	Final Concentration
$MgCl_2$, 25mM Solution	2.0–8.0µl	1.0–4.0mM
5X Colorless GoTaq® Flexi Buffer **OR** 5X Green GoTaq® Flexi Buffer	10µl	1.0X
PCR Nucleotide Mix, 10mM each	1µl	200µM each
upstream primer	5–50pmol	0.1–1.0µM
downstream primer	5–50pmol	0.1–1.0µM
GoTaq® DNA Polymerase, 5u/µl	0.25µl	1.25u/50µl
template DNA	variable	<0.5µg/50µl
Nuclease-Free Water to a final volume of	**50µl**	

2. If using a thermal cycler **without a heated lid**, overlay the reactions with 1–2 drops of mineral oil and centrifuge briefly.
3. Place the reactions in a thermal cycler that has been preheated to 95°C and incubate for 2 minutes.
4. Start the thermal cycling program. We recommend optimizing the cycling profile for each primer:target combination.

Analysis

1. Analyze PCR products by agarose gel electrophoresis. The products should be readily visible in an ethidium bromide-stained gel illuminated with UV light.
2. Store PCR products at –20°C. The PCR products can be further purified using a system such as Wizard® SV Gel and PCR Clean-Up System (Cat.# A9281).

See additional protocol information in Technical Bulletin #TB254, available online at: **www.promega.com/tbs**



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