شرکت تحقیقاتی تولیدی پویا ژن آزما

POUYA GENE AZMA Co. (PGA)

Taq DNA Polymerase 2x Master Mix

1.5mM MgCl2 final concentration

Cat No. PM140-100
Quantity: 1.250 ml (100 Reaction)

Suitable for standard tests due to reduced setup time and increased reproducibility.

Key Features and General Description

Taq DNA Polymerase 2x Master Mix is a ready-to-use 2x reaction mix with Taq DNA polymerase, the NH+ buffer system, dNTPs and magnesium chloride present. Each reaction contains 12.5 µl of the 2x Master Mix. Simply add primers, template and water to a total reaction volume of 25 µl to successfully carry out primer extensions and other molecular biology applications.

Taq DNA Polymerase 2x Master Mix offers several advantages. Set up time is significantly reduced. The chance of contaminating component stocks is eliminated. Reduction of reagent handling
steps leads to better reproducibility. Standard tests can be set up with the
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confidence that results will be consistent every time.

Composition of the Taq DNA Polymerase 2x Master Mix (1.5 mM MgCl2 final concentration)

- Tris-HCl pH 8.5, (NH4) S04, 3 mM MgCl2 , 0.2% Tween 20
- 0.4 mM of each dNTP
- 0.2 units/µl Taq DNA polymerase

Storage and Stability

The unopened kit is stable at -20 °C for 2 years after the production date.

Suggested Protocol Using Taq 2x Master Mix

This protocol serves as a guideline for primer extensions. Optimal reaction conditions such as incubation times, temperatures, and amount of template DNA may vary and must be determined individually.

Notes:

- Set up reaction mixtures in an area separate from that used for DNA preparation or product analysis. Work on ice at all times.
- The final MgCl2 concentration of this 2x Taq Master Mix is 1.5 mM. In some applications, more than 1.5 mM MgCl 2 is required for best results