

PCR Ready Master Mix

**CAT. NO. DP-016-0250, 250 rxns
DP-016-1000, 1000 rxns**

APPLICATION

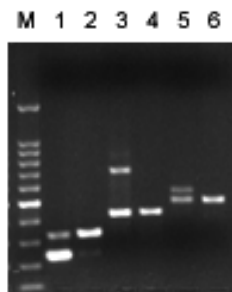
- built-in hot start PCR amplification;
- for amplification of genomic DNA sequences with high fidelity, specificity, sensitivity, and yield;
- for manual or automated PCR reaction setup at room temperature;
- designed for high through-put genotyping and screening.

DESCRIPTION

The PCR Ready Master Mix is a 2x concentrated reagent mix, optimized for built-in hot start PCR amplification. It contains KlenTherm Platinum Taq DNA polymerase, PCR Super-Enhancer buffer, 2x PCR-buffer, dNTP and stabilizers. KlenTherm Platinum DNA polymerase is a modified form of Taq DNA polymerase, which is designed for "Hot Start" PCR due to their suppressed activity at room temperature, thus preventing the primer dimer formation and other artifacts resulting from low-level synthesis from nonspecifically primed sites.

The PCR Ready Master Mix is a special formulated thermostable DNA polymerase mixed with PCR Super-Enhancer buffer, which provides a very efficient way to amplify difficult templates and improve the amplification specificity.

The PCR Ready Mater Mix has been well designed for amplification of genomic DNA sequences, particularly for genotyping with multiple primer sets.



Genotyping of transgenic mice. Lane M, 100-bp marker; lane 1, SOD knock-in mice; lane 2, wt; lane 3, Rag-1 heterozygote; lane 4, wt; lane 5, PML heterozygote; lane 6, wt. PCR condition: 94 °C x 2'; 94 °C x 30", 55 °C x 30", 72 °C x 30", for 30 cycles.

STORAGE TEMPERATURE

Recommended to keep at 2-8°C for immediate use (6 month) and -20°C for long term storage.

COMPOSITION

100 units KlenTherm Taq polymerase, 100 mM Tris-HCl pH 8.75 (at 25°C), 50 mM (NH₄)₂SO₄, 5 mM MgCl₂, 0.5% Triton X-100, 40 µM of each dNTP, 1x PCR enhancer buffer, and stabilizers.

COMPONENT

Cat# DP-016-0250, 250 rxns:
2x PCR Ready Master Mix 2 x 1.25 ml
ddH₂O 2 x 1.5 ml

Cat# DP-016-1000, 1000 rxns:
2x PCR Ready Master Mix 8 x 1.5 ml
ddH₂O 8 x 1.5 ml