



Creative Enzymes

Diagnostic Enzymes

rTaq DNA Polymerase (with Mg²⁺)

Product Information

Cat#	POL-021
Storage	Store at -20 °C.
Features	Two buffers are provided: one containing Mg ²⁺ and another without Mg ²⁺ . Select the appropriate buffer based on the experimental purpose.
Component	20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.5% Nonidet P-40, 0.5% Tween 20, 50% Glycerol
Description	This enzyme is a recombinant form produced by expressing the thermostable Taq DNA polymerase gene, cloned from <i>Thermus aquaticus</i> YT-1, in <i>Escherichia coli</i> . It possesses the same properties as native Taq DNA polymerase. Due to its high purity, it exhibits exceptional specificity. This product is a 2× Master Mix containing Taq DNA Polymerase (enabling hot start PCR and pre-loaded with electrophoresis dye). Simply add template DNA and primers to perform PCR; reaction products can be directly analyzed by electrophoresis. The pre-incorporated Taq antibody in the Master Mix enables highly specific and efficient amplification through the hot start mechanism.
Applications	PCR
Specification	250 U
Expression System	E.coli
10× Reaction Buffer	100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl ₂
Activity Definitions	Under the activity measurement conditions at 75°C, the enzyme activity required to convert 10 nmoles of total nucleotides into acid-insoluble products within 30 minutes is defined as 1 U.

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA