Creative Enzymes
Diagnostic Enzymes

rTaq DNA Polymerase (without Mg^{2+})

Product Information

Cat#	POL-020
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 of the thermostable Taq DNA polymerase gene cloned from Thermus aquaticus YT-1 and expressed in E. coli. It possesses identical properties to native Taq DNA polymerase. Its high purity ensures 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. Pre-incorporation of Taq antibody into the Master Mix, combined with the hot start effect, enables highly specific and efficient amplification.
Applications	PCR
Specification	250 U
Expression System	E.coli
10× Reaction Buffer	100 mM Tris-HCl (pH 8.3), 500 mM KCl
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.

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