rTaq (recombinant Taq) DNA Polymerase

Code No. TAP-

Lot No. ******

Storage Store at −20℃

Size 250units(201) 2,750units(202)
1,250units(205)

Source	:	*Escherichia coli* JM109(pTQ1037)		
Concentration	:	5	units/μl	
Unit Definition	:	One unit of enzyme is defined as the amount of enzyme that will incorporate 10 nmoles of dNTPs into acid insoluble material in 30 minutes at 75℃.		
Assay Condition	:	25	mM	TAPS(pH9.3)
		50	mM	KCl
		10	mM	$MgCl_2$
		200	μM	each of dATP,dGTP,dTTP
		100	μM	[α-^{32}P]-dCTP
		20	μg	activated salmon sperm DNA per 50 μl reaction
Storage Buffer	:	20	mM	Tris-HCl(pH8.0)
		100	mM	KCl
		0.1	mM	EDTA
		1	mM	DTT
		0.5	%	Tween-20
		0.5	%	Nonidet P-40
		50	%	Glycerol
rTaq DNA Polymerase 10×Buffer	:	500	mM	KCl
		100	mM	Tris-HCl(pH8.3 at 25℃)
Magnesium Chloride	:	25	mM	$MgCl_2$(1～4mM(final concentration)are recommended)
dNTPs	:	2	mM	dATP,dGTP,dCTP,dTTP each

Quality Control

1. Endonuclease Activity : When 40 units of this enzyme were incubated with 1 μg of λ-DNA for 16 hours at 75℃, no endonuclease activity was observed after agarose gel electrophoresis.

2. Nicking Activity : When 40 units of this enzyme were incubated with 1 μg of pBR322 for 16 hours at 75℃, no nicking activity was observed after agarose gel electrophoresis.

Purchase of this product is accompanied by a limited licence to use it in the Polymerase Chain Reaction(PCR)process for Research Field in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front licence fee,either by payment to Perkin-Elmer or as purchased,i.e.,an authorized thermal cycler.