Certificate of analysis

rTth DNA Polymerase

Code No.	TTH-309L				
Lot No.	****				
Storage	Store at -20°C				
Size	****units				
Source		:	Escherie	chia coli	KP3998(pLEDNS)
Reaction		:	DNA _{OH} + ndNTP \rightarrow DNA-(pdN) _n + nPPi		
Concentration		:	5	units/	íμl
Unit Definition		:			mount of enzyme that incorporates 10 nmoles of total nucleotides able form in 30 minutes at 75 $^\circ\!\mathrm{C}.$
Assay Condition		:	67	mМ	Tris-HCl(pH8.8 at 25 °C)
			16.6	mМ	$(NH_4)_2 SO_4$
			6.7	mМ	MgCl ₂
			10	mМ	2-mercaptoethanol
			200	μΜ	each dATP,dGTP,dCTP, ³H− dTTP
			20	µg∕ml	ssM13mp 18 DNA
			6	µg∕ml	M13 Sequencing Primer(24mer)
Storage Buffer		:	10	mМ	Tris-HCl(pH7.5 at 25 °C)
			300	mМ	KCI
			1	mМ	DTT
			0.1	mМ	EDTA
			1	%	Triton X- 100
			500	µg∕ml	BSA
			50	%	Glycerol
Contaminant A	ssay				
1.Ribonuclease Activity		:	When	100	units of this enzyme were incubated with 1 μg of RNA for 2
			hours at	:37 °C,r	no ribonuclease activity was observed by agarose gel electrophoresis.
2.Endonuclease Activity		:	When	5	units of this enzyme were incubated with 1 μg of $~\lambda$ –DNA for 16
	hours at $\overline{75^{\circ}C}$,no endonuclease activity was observed by agarose gel electrophoresis				
3.Nicking Acti	ivity	:	When	12.5	units of this enzyme were incubated with 1 μg of pBR322 for 16
			hours at	: 75 °C ,r	no nicking activity was observed by agarose gel electrophoresis.
Purity					
1 .SDS-PAGE		:	90	% pure	
Durahaaa of th	io product io opor		aind by a	limited lie	ones to use it in the Polymersee Chain Posstien(PCP) process for

Purchase of this product is accompanied by a limited licence to use it in the Polymerase Chain Reaction(PCR)process for the 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.