rTth DNA Polymerase

Lat No. ****** Storage Store at -20°C Size 250units(301) 1,250units(302) 2,750units(303) Source : Escherichia coli KP3998(pLEDNS) Raaction : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA on + ndNTP → DNA (pdN) + nPPi Concentration : DNA (pdN) + ndTTP CONCENTRATION : DNA (pdN) + ndTTP CONCENTRATION : DNA (pdN) + ndTT CONCENTRAT	Code No.	ттн-					
Storage Store at -20°C Size 250units(301) 1,250units(302) 2,750units(303) 2,750units(303) Source : <i>Escherichia coli</i> KP3998(pLEDNS) Reaction : DNA _ (pdN) _ n + nPPi Concentration : <u>5</u>	Lot No.	****					
Size 250 units(301) 1.250 units(302) 2.750 units(303) Source : Escherichia coli KP3998(pLEDNS) Reaction : DNA ort + ndNTP \rightarrow DNA- (pdN) + nPPi Concentration : DNA ort + ndNTP \rightarrow DNA- (pdN) + nPPi Concentration : 5 units/µl Unit Definition : One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C. Assay Condition : 67 mM Tris-HCl(pH8.8 at 25 °C) 16.6 mM (MH $_2$), SO ₄ 6.7 mM MgCl ₂ 10 mM 2 -mercaptoethanol 200 µM each dATP.dGTP.dCTP, ³ H - dTTP 20 µg/ml ssM13mp 18 DNA 6 µg/ml M13 Sequencing Primer(24mer) Storage Buffer : 10 mM Tris-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 µg/ml BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C) 800 mM KCl 1 5 mM MgCl ₂ 5 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Cholic Acid	Storage	Store at −20°C					
Source : Escherichia coli KP3999(pLEDNS) Reaction : DNA _{oH} + ndNTP → DNA- (pdN) _n + nPPi Concentration : 5 units/µl Unit Definition : One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C. Assay Condition : 67 mM Tria-HCl(pH8.8 at 25 °C) 16.6 mM (NH ₂) ₂ SQ ₄ 6.7 mM MgCl ₅ 10 mM 2-mercaptoethanol 200 µL/M each dATP.dGTP.dCTP, ³ H- dTTP 20 µL/ml SM139 r18 DNA 6 µL/ml M13 Sequencing Primer(24mer) Storage Buffer : 10 mM Tria-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 µL/ml BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tria-HCl(pH8.9 at 25 °C) 800 mM KCl 15 mM MgCl ₂ 5 mg/ml BSA 10 X Reaction Buffer : 2 mM dATP.dGTP.dTTP each Contaminant Assay 1.Ribonuclease Activity : When 100 units of this enzyme were incubated with 1 µg of RNA for 2 hours at 37 °C, no ribonuclease activity was observed by agarose gel electrophoresis. 3.Nicking Activity : When 125 wire	Size	250units(301) 1,250units(302) 2,750units(303)					
Reaction:DNA $_{OH}$ + ndNTP → DNA- (pdN) , + nPPiConcentration: $\frac{5}{5}$ units/µUnit Definition:One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C.Assay Condition:67 mM Tris-HCl(pH8.8 at 25 °C)16.6mM (Mq/2, SO4.6.7mM MgCl ₂ 10mM 2-mercaptoethanol.200µµ/m each dATP.dGTP.dCTP, ³ H - dTTP.200µµ/m is SM13mp 18 DNA.6µµ/ml M13 Sequencing Primer(24mer)Storage Buffer::10:mM.01mM:00:mM:00:mM:00:mM:00:mM:00:mM:00:mM:00:mM:00:mM:00:mM:00:mM:00::::::::::::::::::::::::::::::::::::: <td>Source</td> <td></td> <td>:</td> <td>Escheri</td> <td>chia coli</td> <td>KP3998(pLEDNS)</td>	Source		:	Escheri	chia coli	KP3998(pLEDNS)	
Concentration : 5 units/ μ l Unit Definition : One units is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C. Assay Condition : 67 mM Tris-HCl(pH8.8 at 25 °C) 16.6 mM (NH ₄) ₂ SO ₄ 6.7 mM MgCl ₂ 10 mM 2-mercaptoethanol 200 μ M each dATP,dGTP,dCTP, 3 H - dTTP 20 μ g/ml ssM13mp 18 DNA 6 μ g/ml M13 Sequencing Primer(24mer) Storage Buffer : 10 mM Tris-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 μ g/ml BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C) 800 mM KCl 15 mM MgCl ₂ 5 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Triton X- 100 40TPs : 2 mM dATP,dGTP,dCTP,dTTP each Contaminant Assay 1.Ribonuclease Activity : When 100 units of this enzyme were incubated with 1 μ g of RNA for 2 hours at 37 °C , no ribonuclease activity was observed by agarose gel electrophoresis. 3.Nicking Activity : When 125 units of this enzyme were incubated with 1 μ g of RNA for 2 hours at 75 °C , no nicking activity was observed by agarose gel electrophoresis. Purity 1.SDS-PAGE : 90 % pure	Reaction		:	DNA _{OH} + ndNTP \rightarrow DNA-(pdN) + nPPi			
Unit Definition : One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C. Assay Condition : 67 mM MgCl ₂ 16.6 mM (NH ₄) ₂ SQ, 6.7 mM MgCl ₂ 10 mM 2-mercaptoethanol 200 μM each dATP,dGTP,dTP, ³ H- dTTP 20 μg/ml M13 Sequencing Primer(24mer) Storage Buffer : 10 mM Tris-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 μg/ml BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Cholic Acid Sodium Salt 1 % MATP,dGTP,dTP,dTP each Contaminant Assay 1.Ribonuclease Activity : When <u>5</u> units of this enzyme were incubated with 1 µg of RNA for 2 hours at 75 °C, no ricking activity was observed by agarose gel electrophoresis. 3.Nicking Activity : When <u>125</u> units of this enzyme were incubated with 1 µg of pBR322 for 16 hours at 75 °C, no nicking activity was observed by agarose gel electrophoresis. Purity 1.SDS-PAQE : 90 % pure	Concentration		:	5 units/μl			
Assay Condition : 67 mM Tris-HCl(pH.8 at 25 °C) 16.6 mM (NH ₄) ₂ SO ₄ 6.7 mM MgCl ₂ 10 mM 2-mercaptoethanol 200 μ M each dATP,dGTP,dCTP, ³ H - dTTP 20 μ g/ml ssM13mp 18 DNA 6 μ g/ml M13 Sequencing Primer(24mer) Storage Buffer : 10 mM Tris-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 μ g/ml BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C) 800 mM KCl 15 mM MgCl ₂ 5 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Triton X- 100 500 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Triton X- 100 40TPs : 2 mM dATP,dGTP,dCTP,dTTP each Contaminant Assay 1.Ribonuclease Activity : When $\frac{100}{5}$ units of this enzyme were incubated with 1 μ g of RNA for 2 hours at 37 °C, no ribonuclease activity was observed by agarose gel electrophoresis. 3.Nicking Activity : When $\frac{125}{7}$ units of this enzyme were incubated with 1 μ g of pBR322 for 16 hours at 75 °C, no endonuclease activity was observed by agarose gel electrophoresis. Purity 1 JSDS-PAGE : 90 % pure	Unit Definition		:	One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into an introduction of 20 minutes at 75°			
Assay Condition I: 07 min Ins-Hol(ph6.8 at 25 C) 16.6 mM (NH ₄) ₂ SO, 6.7 mM MgCl ₂ 10 mM 2-mercaptoethanol 200 µJM each dATP,dGTP,dCTP, ³ H- dTTP 20 µg/ml ssM13mp 18 DNA 6 µg/ml M13 Sequencing Primer(24mer) Storage Buffer I: 10 mM Tris-HCl(pH7.5 at 25 °C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 µg/ml BSA 50 % Glycerol 10 X Reaction Buffer I: 100 mM Tris-HCl(pH8.9 at 25 °C) 800 mM KCl 15 mM MgCl ₂ 5 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Cholic Acid Sodium Salt 1 % Triton X- 100 dNTPs : 2 mM dATP,dGTP,dCTP,dTTP each Contaminant Assay 1.Ribonuclease Activity I: When 100 units of this enzyme were incubated with 1 µg of RNA for 2 hours at 37 °C ,no ribonuclease activity was observed by agarose gel electrophoresis. 3.Nicking Activity I: When 12.5 units of this enzyme were incubated with 1 µg of pBR322 for 16 hours at 75 °C, no endonuclease activity was observed by agarose gel electrophoresis. Purity 1.SDS-PAGE I: 90 % pure	A O			into ació	a precipi	table form in 30 minutes at 75 C.	
10.0 mM (Mn ₄ /2 SO ₄ 6.7 mM MgCl ₂ 10 mM 2-mercaptoethanol 200 µg/ml seath 3M13mp 18 DNA 6 µg/ml SM13mp 18 DNA 6 µg/ml sml13mp 18 DNA 6 µg/ml SM13mp 18 DNA 6 µg/ml MIN 300 mM KCI 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 µg/ml BSA 10 mM Tris-HC1(pH8.9 at 25 °C) 800 mM KCI 15 mM MgC1 ₂ 5 mg/ml BSA 1 % Triton X- 100 dNTPs : 2 mM dATP.dGTP.dCTP	Assay Condition		÷	0/	mivi m M	(NU) = O(DO(DO(DO(DO(DO(DO(DO(DO(DO(DO(DO(DO(DO	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				10.0	mivi M	$(NH_4)_2$ SO ₄	
$10 \text{ mM} 2^{-\text{merceptoetranol}} \\ 200 \mu M \qquad \text{each dATP,dGTP,dTP, }^{1}H - dTTP \\ 20 \mu g/ml \qquad \text{ssM13mp 18 DNA} \\ 6 \mu g/ml \qquad \text{M13 Sequencing Primer(24mer)} \\ \text{Storage Buffer} \qquad : 10 \text{mM} \qquad \text{Tris-HCl(pH7.5 at 25 °C)} \\ 300 \text{mM} \qquad \text{KCl} \\ 1 \text{mM} \qquad \text{DTT} \\ 0.1 \text{mM} \qquad \text{EDTA} \\ 1 \% \qquad \text{Triton X- 100} \\ 500 \mu g/ml \qquad \text{BSA} \\ 50 \% \qquad \text{Glycerol} \\ 10 \text{ X Reaction Buffer} \qquad : 100 \text{mM} \qquad \text{KCl} \\ 15 \text{mM} \qquad \text{MgC1}_2 \\ 5 \text{mg/ml} \qquad \text{BSA} \\ 1 \% \qquad \text{Choic Acid Sodium Salt} \\ 1 \% \qquad \text{Choic Acid Sodium Salt} \\ 1 \% \qquad \text{Triton X- 100} \\ \text{dNTPs} \qquad : 2 \text{mM} \qquad \text{dATP,dGTP,dCTP,dTTP each} \\ \text{Contaminant Assay} \\ 1.\text{Ribonuclease Activity} \qquad : \qquad \text{When} \frac{100}{5^{\circ} \text{ C}} \text{ ,no ribonuclease activity was observed by agarose gel electrophoresis.} \\ 3.\text{Nicking Activity} \qquad : \qquad \text{When} \frac{12.5}{7^{\circ} \text{C}} \text{ ,no ricking activity was observed by agarose gel electrophoresis.} \\ 3.\text{Nicking Activity} \qquad : \qquad \text{When} \frac{12.5}{7^{\circ} \text{C}} \text{ ,no ricking activity was observed by agarose gel electrophoresis.} \\ \text{Purity} \\ 1.\text{SDS-PAGE} \qquad : 90 \% \text{ pure} \\ \end{cases}$				0.7	mivi		
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Storage Butter : 10 mM This-HClipH7.5 at 25 C) 300 mM KCl 1 mM DTT 0.1 mM EDTA 1 % Triton X- 100 500 $\mu g/ml$ BSA 50 % Glycerol 10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C) 800 mM KCl 15 mM MgCl ₂ 5 mg/ml BSA 1 % Cholic Acid Sodium Salt 1 % Triton X- 100 dNTPs : 2 mM dATP,dGTP,dCTP,dTTP each Contaminant Assay 1.Ribonuclease Activity : When $\frac{100}{100}$ units of this enzyme were incubated with 1 μg of RNA for 2 hours at $37 \ ^{\circ}C$,no endonuclease activity was observed by agarose gel electrophoresis. 3.Nicking Activity : When $\frac{12.5}{120}$ units of this enzyme were incubated with 1 μg of pBR322 for 16 hours at $75 \ ^{\circ}C$,no incking activity was observed by agarose gel electrophoresis. Purity 1.SDS-PAGE : 90 % pure	Storage Buffer			0	µg∕ mi	MIS Sequencing Primer(24mer)	
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$:	10	mivi	Tris-HGI(pH7.5 at 25 C)	
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$1 \ \% \qquad 1 \text{ Inton } X = 100$ $500 \ \mu g/\text{ml} \qquad BSA$ $50 \ \% \qquad Glycerol$ $10 \text{ X Reaction Buffer} \qquad : 100 \ \text{mM} \qquad \text{Tris-HC1}(pH8.9 \text{ at } 25 \ ^{\circ}\text{C} \)$ $800 \ \text{mM} \qquad \text{KCl}$ $15 \ \text{mM} \qquad \text{MgC1}_2$ $5 \ \text{mg/ml} \qquad BSA$ $1 \ \% \qquad \text{Cholic Acid Sodium Salt}$ $1 \ \% \qquad \text{Cholic Acid Sodium Salt}$ $1 \ \% \qquad \text{Cholic Acid Sodium Salt}$ $1 \ \% \qquad \text{Triton } X - 100$ $d\text{NTPs} \qquad : 2 \ \text{mM} \qquad d\text{ATP,dGTP,dCTP,dTTP each}$ $Contaminant Assay$ $1.\text{Ribonuclease Activity} \qquad : \text{When} \qquad \frac{100}{37 \ ^{\circ}\text{C}} \text{ ,no ribonuclease activity was observed by agarose gel electrophoresis.}$ $2.\text{Endonuclease Activity} \qquad : \text{When} \qquad \frac{5}{75 \ ^{\circ}\text{C}} \text{ ,no endonuclease activity was observed by agarose gel electrophoresis.}$ $3.\text{Nicking Activity} \qquad : \text{When} \qquad \frac{12.5}{\text{ hours at } 75 \ ^{\circ}\text{C}} \text{ ,no endonuclease activity was observed by agarose gel electrophoresis.}$ $Purity$ $1.\text{SDS-PAGE} \qquad : 90 \ \% \text{ pure}$				0.1	mM		
$\begin{array}{rcl} 500 & \mu g/ml & BSA \\ 50 & \% & Glycerol \\ 10 X Reaction Buffer & : & 100 & mM & Tris-HC1(pH8.9 at 25 °C) \\ 800 & mM & KCl \\ 15 & mM & MgC1_2 \\ 5 & mg/ml & BSA \\ 1 & \% & Cholic Acid Sodium Salt \\ 1 & \% & Triton X- 100 \\ dNTPs & : & 2 & mM & dATP,dGTP,dCTP,dTTP each \\ Contaminant Assay \\ 1.Ribonuclease Activity & : & When & 100 \\ MNen & 100 \\ Line & 100 \\ S.Endonuclease Activity & : & When & 100 \\ hours at 37 °C , no ribonuclease activity was observed by agarose gel electrophoresis. \\ 2.Endonuclease Activity & : & When & 125 \\ Mhen & 5 \\ Mhen & 125 \\ Mit s of this enzyme were incubated with 1 \mu g of pBR322 for 16 \\ Mours at 75 °C , no nicking activity was observed by agarose gel electrophoresis. \\ Purity \\ 1.SDS-PAGE & : & 90 \\ \% pure \end{array}$				1	%	Iriton X- 100	
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hours at 75 °C ,no nicking activity was observed by agarose gel electrophoresis. Purity 1 .SDS-PAGE : 90 % pure	3.Nicking Act	ivity	:	When	12.5	units of this enzyme were incubated with 1 μg of pBR322 for 16	
Purity 1.SDS-PAGE : 90 % pure				hours at	t 75 °C	no nicking activity was observed by agarose gel electrophoresis.	
1.SDS-PAGE : 90 % pure	Purity						
	1 .SDS-PAG	E	:	90	% pure		

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.