Technical Datasheet

DNA Polymerase I

(E. coli)

Cat No:	PM-1080-01 PM-1080-02	Pack size:	500U 2500U
Concentration:	U/µl	Lot No:	
Specific Activity:	U/mg	Protein Conc.:	mg/ml
Unit Definition:	One unit is the amount of enzyme required incorporate 10nmol of total nucleotide into acid-insoluble material in 30 min at 37°C.		
Assay Conditions:	67mM potassium phosphate (pH 7.4); 6.7mM MgCl ₂ ; 1.0mM DTT; 0.033mM [α - ³² P]dATP; 0.033mM dCTP; 0.033mM dGTP; 0.033mM dTTP & 4.5µg activated DNA. Incubation is at 37°C for 30 min in a reaction volume of 100µI.		
Storage Buffer:	50mM potassium phosphate (pH 7.0), 0.	.25mM DTT, & 5	0% glycerol.
Quality Control			
Endonuclease:	Incubation of 5, 10 and 20U DNA polyma 37°C for 1 hour resulted in <10% convervolume 10µl.		
<u>Purity</u> :	Approximately 95% pure, as judged by 9 electrophoresis.	SDS-polyacrylam	nide gel
Storage:	Store at -20°C.		