

Alkaline Phosphatase

Alkaline Phosphatase catalyzes the removal of 5' phosphate groups from DNA, RNA, ribo- and deoxyribonucleoside triphosphates. It is widely used for the dephosphorylation of 5'-phosphorylated ends of DNA or RNA. Dephosphorylation also prevents religation of linearized plasmid DNA in cloning experiments.

Description	Cat.#	Qty
Alkaline Phosphatase	UP852857	10 000 Units
(Calf intestinal mucosa)	UP852858	100 000 Units

T4 dNMP kinase

NMP kinases catalyse the phosphorylation of nucleotide monophosphates resulting in the corresponding nucleotide diphosphates by using ATP as a phosphate donor. T4 dNMP kinase is the only member of the family of NMP kinases that recognizes three structurally dissimilar nucleotides: dGMP, dTMP and 5-hydroxymethyl-dCMP (5-OH-dCMP).

Description	Cat.#	Qty
T4 dNMP kinase	FR0910	10 000 Units
(Bacteriophage T4, recombinant, E.coli)		

RNase T1

Ribonuclease T1 (RNase T1) is an endoribonuclease that specifically cuts RNA at the 3'-end of guanosine residues through a 2', 3'-cyclic phosphate intermediate mechanism. RNase T1 is cloned from *Aspergillus oryzae* and over expressed in *E. coli* to produce a highly pure enzyme without contaminating DNase or non-specific RNase activity. RNase T1 is used for RNA structure and mapping studies and for RNA protection assays, as well as for removal of RNA from DNA samples.

Description	Cat.#	Qty
Ribonuclease T1, 1000 U/μl	FZ605A	300000 Units
	FZ605B	1 500 000 Units
Ribonuclease T1, lyophilized powder	BM9820	1 mg
(<i>Aspergillus oryzae</i> , Recombinant, E. coli)	BM9821	5 mg

Selective RNA synthesis

SP6 RNA Polymerase

Isolated from a recombinant *E. coli* strain this DNA-dependent RNA polymerase is strictly specific for its pro-moter. It is used to transcribe RNA from DNA templates, cloned into vectors containing SP6 promoter.

Unit definition : One unit is the amount of enzyme that incorporates 1 nmol of labelled nucleoside triphosphates into acid-precipitable RNA in 60 minutes at 37°C.

Description	Cat.#	Qty
SP6 RNA Polymerase, 60 units/μl	BL9610	1000 u

T3 RNA Polymerase

This DNA-dependent RNA polymerase synthesizes RNA from a double-stranded DNA template containing T3 promoter. RNA is specifically synthesized from downstream of promoter sequences.

Description	Cat.#	Qty
T3 RNA Polymerase, recombinant, Solution	GX5412	5000 units

T7 RNA Polymerase

This DNA-dependent RNA polymerase synthesizes RNA from a double-stranded DNA template containing T7 promoter. RNA is specifically synthesized from downstream of promoter sequences.

Description	Cat.#	Qty
T7 RNA Polymerase, recombinant, Solution	GX5422	5000 units

D.70 Contents : SP6 RNA Polymerase, 5 x Transcription Buffer

Contents : T3 RNA Polymerase, 5 x Transcription Buffer, DTT

Contents : T7 RNA Polymerase, 10 x Transcription Buffer