

# **KRISHZYME™** Enzymes for mRNA Vaccine

## **T7 Polymerase**

This product is the phage T7 RNA Polymerase derived from recombinant expression in E. coli. It can specifically recognize the T7 promoter sequence, and synthesize RNA complementary to downstream single-stranded DNA of the promoter using the single or double stranded DNA containing the sequence of T7 promoter as the template and NTP as the substrate.

Cat No	Composition	Storage	Product ID/Specification	
		Temperature	KNB9001S (5KU)	KNB9001L (50KU)
KNB9001-I	T7 RNA Polymerase 50 U/ul)	-20	100 ul	1000 ul
kNB9001-II	Buffer	-20	400 ml	4000 ml

1X Buffer contains: 40 mM Tris HCI (pH7.9), 6mM MgCl2, 1mM DTT and 2mM spermidine, 10mM NaCl.

#### **Product Properties**

Optimal Reaction Temperature: 37°C

Definition of Active Unit: 1 active unit is defined as the amount of enzyme needed to incorporate 1 nmol of [3H] GMP into acid-insoluble precipitate within 1h under the conditions of 37<sup>o</sup>C and pH8.0.

#### **Quality Control**

Purity ≥ 95% Residual Host Cell DNA ≤ 100 pg/mg Residual Host Cell Protein ≤ 50 ppm Residual Endotoxin ≤10 EU/mg No residual RNase, Endonuclease, Exonuclease or Protease Germ-free, Pathogen-free.

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### **Product Features**

Excellent RNA output rate; homogeneous transcript length; transcript length up to 10K.

	Competitor		KRISHGEN			
М	ЗК	5K	10K	3K	5K	10K
8	-	-	-	-	-	-

### **Product Information**

Cat No	Composition	Storage Temperature	Specification
KNB9001	T7 RNA Polymerase	-20	5KU, 50KU

#### Other KRISHZYME mRNA Vaccine Enzymes Available

Cat No	Product Particulars	
KNB9001	T7 RNA Polymerase	
KNB9003	mRNA Cap-2'-O-Methyltransferase	
KNB9004	Poly(A) Polymerase	
KNB9005	RNase inhibitor	
KNB9006	DNase I	
KNB9007	RNase III	
KNB9008	T4 RNA ligase	
KNB9009	Pyrophosphatase Inorganic	
KNB9010	Alkaline Phosphatase	
KNB9011	EcoRI	

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