

Enzymes for mRNA Vaccine

KRISHZYME™ Poly (A) Polymerase

This product is the Poly(A) Polymerase recombinantly expressed in E. coli. It catalyzes with ATP as the substrate, and adds adenyl acid to the 3'-hydroxyl terminus of RNA to form the PolyA tail structure in the form of AMP.

Cat No.	Composition	Storage Temperature (°C)	Product ID/Specification	
			KNB9004S (100 U)	KNB9004L (1000U)
KNB9004-I	Poly(A) Polymerase (20 U/ul)	-20	50 ul	200 ul
KNB9004-II	Reaction Buffer	-20	1.5 ml	15 ml
KNB9004-III	AdENosine-5'- Triphosphate (ATP 10 mM)	-20	200 ul	2000 ul

10X Reaction Buffer contains: 0.5M Tris-HCl(pH8.0), 50mM KCl, 10mM MgCl2 and 10mM DTT.

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 AMP into RNA within 10min at 37°C in a 20 ul reaction.

Quality Control

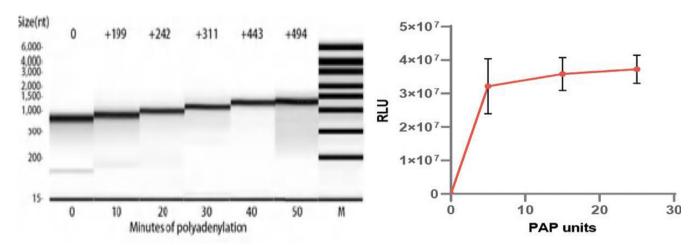
Purity ≥ 95%, residual host cell DNA ≤ 100pg/mg, residual host cell protein ≤ 50 ppm, residual endotoxin ≤10EU/mg, no residual RNase, endonuclease, exonuclease or protease, germ-free, pathogen-free.



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Product Features

Efficient mRNA capping: adding 200nt polyA tail to 10 ug of RNA in 10min (5U enzyme for capping). Homogenous tailing length: controlling polyA tail length by adjusting reaction time or enzyme dosage.



Product Information

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KNB9004	Poly(A) Polymerase	100 U, 1000 U

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	EcoR I	