

KRISHZYME™ Enzymes for mRNA Vaccine

DNase I

This product is the DNase I recombinantly expressed in E. coli. This endonuclease is capable of non-specific shearing of single-stranded or double-stranded DNA and producing second and third oligonucleotide products. Free of RNase, it guarantees the high purity of DNase I and the integrity of RNA.

Cat No	Composition	Storage Temperature (°C)	Product ID/Specification	
			KNB006S (1KU)	KNB006L (5KU)
KNB9006-I	DNase I (RNAase-free) (2 U/ul)	-20	0.2 ml	1 ml
KNB9006-II	10X Reaction Buffer	-20	1.5 ml	15 ml

1X Reaction buffer contains: 10 mM Tris-HCl (pH7.6).

Product Properties

Optimal pH Range: 7–8

Definition of Active Unit: 1 active unit is defined as the amount of enzyme needed to completely degrade 1 ug of pBR322 DNA in 10min at 37°C

Quality Control

Purity ≥ 95%,

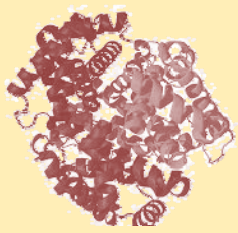
Residual Host Cell DNA ≤ 100pg/mg,

Residual Host Cell Protein ≤ 50 ppm,

Residual Endotoxin ≤ 10EU/mg,

No residual RNase, endonuclease, exonuclease or protease.

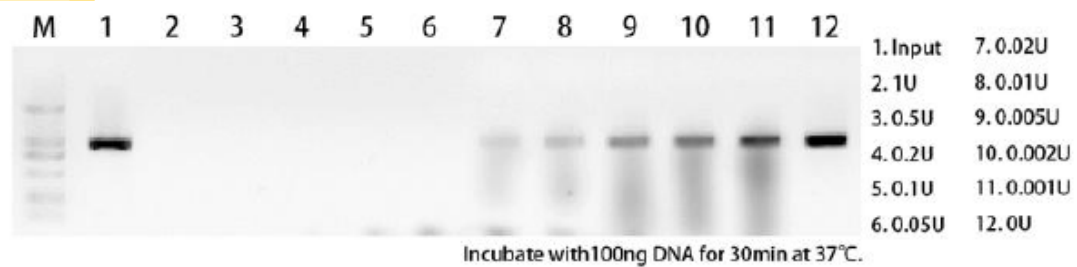
Germ-free, Pathogen-free.



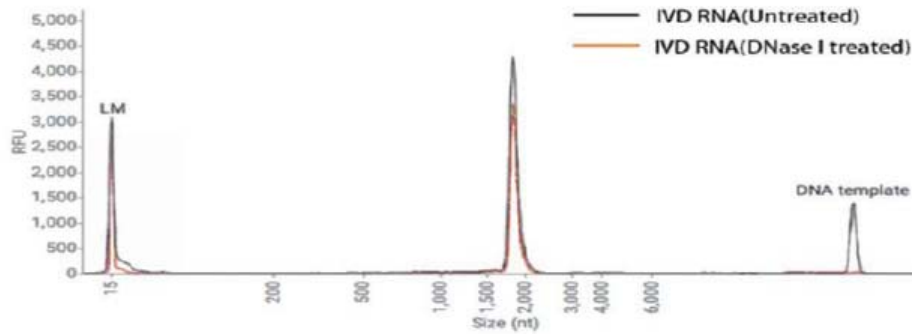
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Product Features

High enzyme activity; efficient removal of DNA with microamount.



Efficient removal of IVT DNA template; no RNase activity; no impact on mRNA integrity.



Product Information

Cat No	Composition	Specification
KNB9006	DNase I (RNase-free)	1 KU, 5 KU

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