

mRNex® E.coli poly(A) Polymerase (5 U/μL)

Cat. no. LD303001

Address: SHT technology GmbH, Niederhöchstädter Str. 64, 61476 Kronberg im
Taunus, Germany

Tel.: +49 176 34989414

Website: <https://sht-medino.de/>

mRNex® E.coli poly(A) Polymerase (5 U/μL)

Cat. no. LD303001

Product Information

Product	mRNex® E.coli poly(A) Polymerase (5 U/μL)
Catalog No.	LD303001
Storage conditions	Stored at -25~-15°C, valid for 2 year.
Size	100 U/500 U

2. Product description

E. coli Poly(A) polymerase, also known as Poly(A) tailing enzyme, catalyzes the addition of AMP, derived from ATP, to the 3' end of single-stranded RNA in a template-independent manner, forming a Poly(A) tail. E. coli Poly(A) polymerase can use various single-stranded RNA molecules as substrates, but DNA cannot be used as a substrate for this reaction. Double-stranded RNA and very short oligonucleotides are not recommended as substrates for this reaction. The Poly(A) tailing reaction catalyzed by E. coli Poly(A) polymerase can only use ATP, not ADP or dATP. When using CTP and UTP, their incorporation is less than 5% of the amount when using ATP; when using GTP, it cannot be incorporated at all into the 3' end of RNA

3. Product component

Cat No.	Component	Size	
		100 U	500 U
LD303001-A	E.coli poly (A) Polymerase (5 U/μL)	20μL	100μL
LD303001-B	10×Reaction Buffer	100μL	500μL

4. Instructions for Use

4.1. Preparation of the reaction system.

Component	Volume(μL)
10 × Reaction Buffer	2
ATP (10mM)	2
RNase Inhibitor (40U/μL)	0.5
RNA	Total 0.5~10ug
E.coli poly(A)Polymerase (5U/μL)	1
ddH ₂ O	Up to 20

4.2. Reaction conditions: Incubate at 37°C for 30 minutes, then add EDTA to a final concentration of 10 mM, or incubate at 65°C for 20 minutes to terminate the reaction.

5. NOTES

5.1. For your safety and health, please wear a lab coat and disposable gloves during operation.

5.2. This product is for research purposes only!