

M5 HiPer E. coli Poly(A) 聚合酶使用说明书

产品名称	单位	货号
M5 HiPer E. coli Poly(A) 聚合酶	100u	MF465-01

【储存条件】: -20°C

【产品简介】 E. coli Poly(A) Polymerase catalyzes the template independent addition of AMP from ATP to the 3' end of RNA.

【产品应用】

- Labeling of RNA with ATP or cordycepin
- Poly(A) tailing of RNA for cloning or affinity purification
- Enhances translation of RNA transferred into eukaryotic cells

【产品组成】

M5 HiPer E. coli Poly(A) 聚合酶 (5U/ul)	100U
10X E. coli Poly(A) Polymerase Reaction Buffer	0.5ml
10 mM ATP	0.1ml

【产品来源】 An E. coli strain that carries the cloned Poly(A) Polymerase gene from E. coli (1).

【活性定义】:

One unit is defined as the amount of enzyme that will incorporate 1 nmol of AMP into RNA in a 20 µl volume in 10 minutes at 37°C.

【活性检测条件】: 1X E. coli Poly(A) Polymerase Reaction Buffer, 1 mM ATP and 500 ng 5' FAM labeled poly A 20-mer RNA in a 20 µl reaction. After incubation at 37°C for 10 minutes the length of the poly(A) addition is determined either by gel electrophoresis or with an automated capillary DNA sequencer. In this assay 5 units of enzyme add approximately 60 to 80 adenosines to the RNA primer. In these conditions 20 units of enzyme will deplete the ATP.

【反应体系】:

RNA	1-10 µg in 15 µl nuclease free water
10X E. coli Poly(A) Polymerase Reaction Buffer	2 µl (1X)
ATP (10mM)	2 µl
M5 HiPer E. coli Poly(A) Polymerase	1 µl
Total	20 µl

Incubate reaction at 37°C for 30 minutes.

Stop the reaction by adding EDTA to a final concentration of 10 mM or directly proceeding to the cleanup step.

【热失活】: 65°C for 20 minutes

【质量保证】:

E. coli Poly(A) Polymerase contains no detectable DNAses, RNAses and phosphatases. The purified protein contains no detectable DNA or RNA as determined by ethidium staining of an agarose gel.

【备注】

本产品仅供科研使用。在确认产品质量出现问题时，本公司承诺为客户免费更换等量的质量合格产品。