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DATA SHEET

Version: 2
Revision date: 13/03/2023

1. Identification

Product name	**Poly(A) Polymerase** 5U/uL 100U
Cat. No	EZ0045

2. Description

Poly(A) Polymerase I from Escherichia coli, is a very active recombinant enzyme produced by a overproducer strain of E.coli. The enzyme adds a long tail of adenine nucleotides at the 3' end of messenger RNA using ATP as donor.

3. Protein information

Predicted MW	54 kDa
Purity	≥ 95% as determined by SDS-polyacrylamide gels with Coomassie® blue staining
Buffer Storage	1X Reaction Buffer: 20 mM Tris-HCl, 300 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.1 % Triton®X-100, 50% Glycerol, (pH 7.5 at 25˚C)
Biological activity	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.

4. Gene Information

Synonyms	PAP I
Official Symbol	pcnB
Specie	*Escherichia coli*
Protein Family	polyA polymerase

5. Storage specifications

Store at -20ºC. Avoid exposure to constant temperature changes.

6. Applications

- 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.

7. Further information

Product Use Limitations This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Disclaimer The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product.

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