

DATA SHEET

Version: 1
Revision date: 17/02/23

1. Identification

Product name	SP6 RNA Polymerase 20U/μL, 2000 U
Cat. No	Ez0030

2. Description

SP6 RNA polymerase is a recombinant protein from SP6 bacteriophage produced in *E.coli*. Highly specific for the SP6 promoter that makes it distinct from those of analogous enzymes. SP6 RNA polymerase catalyzes efficiently the synthesis of RNA from double-stranded DNA.

3. Protein information

Predicted MW	98,5 KDa
Purity	Purity is >95% by SDS-PAGE
Buffer	50mM Tris-HCl buffer (pH 7.9 at 25°C), 100mM NaCl, 20 mM β-ME, 1mM EDTA, 0.1% (v/v) Triton® X-100, 50% (v/v) glycerol.
Storage	-20°C
Biological activity	One unit is defined as the amount of enzyme required to catalyze the incorporation of 5 nmol of CTP into acid-insoluble product in 60 minutes at 37 °C

4. Gene Information

Synonyms	-
Official Symbol	SP6 RNAP
Specie	SP6 Bacteriophage
Protein Family	Phage and mitochondrial DNA-dependent RNA Polymerase.

5. Storage specifications

Store at -20°C. Avoid exposure to constant temperature changes.

6. Applications

- *In vitro* mRNA synthesis (DNA sequence to transcript must be cloned downstream SP6 promoter).
- Probes generation for its ability to incorporate 32P, 35S and 3H and fluorescent nucleotide analogs.
- RNase protection assay.
- RNA amplification.
- Obtention of RNA targets for translation procedures.

7. Further information

RUO	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.
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