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Luis de Mercado Street, 19 Boecillo Technological Park 47151, Boecillo Valladolid, Spain.

Tlf: +34 983 54 85 63 info@canvaxbiotech.com

www.canvaxbiotech.com

### Identification

**Product name T7 RNA Polymerase** 

(50 U/µL) 5000 Ū

Cat. No EZ0025

# 2. Description

T7 RNA Polymerase is a very active recombinant enzyme produced by a strain of Escherichia coli. The enzyme is a DNA dependent RNA polymerase from coliphage T7. It catalyzes the synthesis of RNA in the  $5 \rightarrow 3$  direction only in the presence of its cognate T7 phage promoter sequence.

## 3. Protein information

**Predicted MW** 98,8 KDa

>95% as determined by SDS-polyacrylamide gels with Coomassie® **Purity** 

blue staining

1X Reaction Buffer: 40 mM Tris-HCl, 6 mM MgCl2, 1 mM DTT, 2 mM **Buffer** 

spermidine (pH 7.9 @ 25°C)

-20°C Storage

One unit is defined as the amount of enzyme that will incorporate 1 **Biological activity** 

nmol ATP into acid-insoluble material in a total reaction volume of

50 µl in 1 hour at 37°C.

#### 4. Gene Information

T7RNAP **Synonyms** Official Symbol T7p07

Escherichia phage T7 Specie

Family of single-subunit RNAPs that includes the phage RNAPs (T3. **Protein Family** 

K11, SP6, N4, and others) as well as the mitochondrial RNAPs.

#### 5. Storage specifications

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

#### 6. Applications

- Synthesis of mRNA, RNA standard template for RT-PCR, RNA probes for hybridization.
- Preparation of RNA vaccines.
- Studies of RNA secondary structure and RNA-protein interactions, RNA splicing.

## 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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damage resulting from handling or from contact with the above product.

