



Product Details

T7 RNA Polymerase is a DNA-dependent RNA polymerase with strict specificity for the T7 phage promoter. The enzyme is widely used for the synthesis of specific transcripts from DNA in the 5'→ 3' direction, as well as being a suitable model for studying the mechanisms of transcription. The RNA produced by T7 RNA Polymerase is suitable for many downstream applications.

Application

- Synthesis of the single-strand RNA
- Synthesis of highly labeled RNA probes
- Synthesis of precursors of siRNA
- Synthesis of precursors for RNA splicing reactions
- Synthesis of capped mRNA when a cap analog is used as a primer

Unit Definition

One unit is defined as the amount of enzyme required to incorporate 1 nmol of ATP into acid-insoluble material in 1 hour at 37°C.

Quality Control

No endodeoxyribonucleases, exodeoxyribonucleases and Ribonucleases residues.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm filtered solution in 50 mM Tris, 100 mM NaCl, 1 mM EDTA, 2 mM TCEP, 0.1 % TritonX-100, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with blue ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

- This product is stable for up to 12 months at -20°C from date of receipt.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

Discounts, Gifts,
and more!

