Creative Enzymes
Diagnostic Enzymes

# T7 RNA Polymerase

## Product Information

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| **Cat#** | DIA-577 |
| **Unit Definition** | One unit of enzyme activity is defined as the amount of enzyme required to incorporate 1 nmol of AMP into polynucleotides in 1 hour at 37 °C and pH 8.0. |
| **Storage** | -20 °C |
| **Buffer** | 50 mM Tris-HCl (pH 7.9), 100 mM NaCl, 10 mM DTT, 1 mM EDTA, 0.1% (v/v) Triton X-100, 50% (v/v) glycerol |
| **Product Overview** | 5′→3′ RNA polymerase activity.<br>Supports synthesis of labeled or unlabeled RNA.<br>Compatible with nucleotide substrates modified with biotin, digoxigenin, or fluorescent tags for RNA labeling. |
| **Notes** | Perform all handling and transcription reactions in an RNase-free environment. Wearing gloves and adding RNase inhibitors to the reaction are recommended to prevent RNA degradation.<br>For transcripts shorter than 100 nt, the template amount can be increased up to 2 μg.<br>To avoid precipitation caused by DNA and spermidine interaction at low temperatures, prepare the reaction mix at room temperature. |
| **Package** | 2/10/100 KU |

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