

# User Manual

Version 3.0

**Product name:** T7 RNA Polymerase

**Cat #:** RP-100, RP-200, RP-OEM, B-T7R10

## Description:

T7 RNA Polymerase is a DNA-dependent RNA polymerase derived from T7 bacteriophage which exhibits a high recognition specificity to the T7 promoter and terminator sequences and catalyzes the 5' → 3' synthesis of RNA starting at a T7 promoter sequence.

## Protocol:

Combine the following reaction components at room temperature in the order given:

x µl RNase free water up to 20 µl total reaction volume

0.5-1 µg linearized template DNA with appropriate promoter

2 µl 10X transcription buffer

1 µl of 10 mM NTP

2 µl 100 mM DTT

10 U T7 RNA polymerase

Incubate at 37 °C for 2 hours.