



T7 High Yield RNA Synthesis Kit

The T7 High Yield RNA Synthesis Kit is designed for the large-scale synthesis of RNA through in vitro transcription using T7 RNA polymerase and DNA templates containing a T7 promoter. It is suitable for both long and short RNA transcripts. The T7 Enzyme Mix included RNase inhibitor and inorganic pyrophosphatase. Additionally, DNase I, RNase-free, is provided to eliminate template DNA after the transcription reaction. Using this kit, 1ug of linearized double-stranded DNA template can yield at least 150ug of RNA. The synthesized RNA is applicable for a wide range of downstream applications, including in vitro translation, RNA structure and function studies, RNase protection assays, probe hybridization, RNA interference, and more.

Kit Components:

1. T7 Enzyme Mix: 100uL
2. T7 RNA Pol Buffer [10x]: 100uL
3. ATP [100mM]: 100uL
4. CTP [100mM]: 100uL
5. GTP [100mM]: 100uL
6. UTP [100mM]: 100uL
7. Control Template [0.5ug/uL]: 10uL
8. DNase I (RNase Free) [1U/uL]: 100uL
9. Nuclease-Free Water: 1mL

Catalog No.	517001
Size	50 rxns
Product Category	In Vitro Transcription
Storage/Stability	-20°C / 2 years
Shipping	Gel Packs

