

효율적인 mRNA 합성

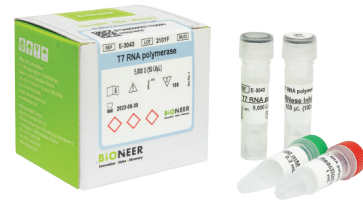
백신 개발에 날개를 달았다!

T7 RNA POLYMERASE

- ☑ 높은 수율의 mRNA 합성
- ☑ ISO 9001 품질 시스템
- ☑ 신뢰할 수 있는 전문성
- ☑ 대규모 공급 가능

T7 RNA POLYMERASE

T7 RNA polymerase는 bacteriophage T7 RNA polymerase gene을 Escherichia coli로부터 발현시킨 후 정제 과정을 거친 제품입니다. T7 phage promoter에 특이적으로 결합하고, T7 promoter 아래에 cloned DNA sequence로부터 시험관 내 RNA의 합성을 촉매하는 제품입니다.



Components

	E-3043 (100 rxn)	E-3044 (500 rxn)
T7 RNA Polymerase (50 U/μl)	5,000 U (100 μl)	25,000 U (100 μl X 5)
5X Reaction buffer	1 ml	1 ml X 5
RNase inhibitor (100 ng/μl)	0.1 ml	0.1 ml X 5
100 mM DTT	0.2 ml	0.2 ml X 5

* Note: For research use only. Not for use in diagnostic or therapeutic procedures.

Application

- Synthesis of highly radiolabeled RNA probes
- Synthesis of siRNA precursors
- Synthesis of precursors for RNA splicing reactions
- Synthesis of mRNA for *in vitro* translation
- Synthesis of sgRNA for CRISPR-Cas9 based gene editing
- RNA structure, processing and catalysis studies
- Production of RNA Vaccines
- Expression control via anti-sense RNA

Ordering Information

Product Description		Cat. No.
T7 RNA Polymerase	5,000 U (100 rxn)	E- 3043
	25,000 U (500 rxn)	E-3044
Related Products		Cat. No.
mRNA Synthesis Service		gene-synthesis-mrna-custom order
AllInOneCycler™ PCR System		A-2041
DUALED Blue/White Transilluminator		A-6020

Quality Assurance

- Nuclease Contamination Assay: Nuclease activity is not detected after incubation of 1 μg of substrate Lambda DNA or RNA with 50 ng of T7 RNA Polymerase at 37°C for 18 hr.
- Protease Contamination Assay: Protease activity is not detected after incubation of Protease K with 2 μg of T7 RNA Polymerase at 37°C for 18 hr.
- Physical Purity: The purity is ≥ 95% as determined by SDS-polyacrylamide gels.