

PRODUCT INFORMATION

T7 RNA Polymerase with buffer B

v. 230701

	Cat. Name		Amount	
Set package &	T7 RNA Polymerase (2	• •	25,000 U	
Component	C15010HB-25000U 10X RNA Polymerase	reaction buffer E		
	100 mM DTT		1 mL	
Description	Bacteriophage T7 RNA Polymerase is a DN high specificity for the T7 promoter. This enzy RNA from DNA downstream from its promote	me catalyzes the		
Source	Escherichia coli			
Purity	>98% as determined by SDS-PAGE analysis.			
Unit Definition	One unit is defined as the amount of the enzyme incorporates 1 nmol of ATP in acid-insoluble product in 1 hour at 37°C.			
Reaction Condition	1X RNA Polymerase Reaction Buffer, supplemented with 3 mM each ATP, UT GTP, CTP, and DNA template containing the T7 RNA Polymerase promote Incubate at 37°C.			
	Standard RNA synthesis procedures: 1. Below reaction mixture should be prepared under room temperature and combined in the following order: Component Final			
	oomponon	/	Final	
	-		concentration	
	Nuclease-Free H ₂ O	ΧµL		
	Nuclease-Free H ₂ O Template DNA	0.5-1 µg	concentration -	
	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B	0.5-1 μg 2 μL	concentration - 1X	
Manuel	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B ATP (100 mM)	0.5-1 µg 2 µL 0.6 µL	concentration - 1X 3 mM	
Manuel	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B ATP (100 mM) UTP (100 mM)	0.5-1 µg 2 µL 0.6 µL 0.6 µL	concentration - 1X 3 mM 3 mM	
Manuel	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B ATP (100 mM)	0.5-1 µg 2 µL 0.6 µL	concentration - 1X 3 mM	
Manuel	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B ATP (100 mM) UTP (100 mM)	0.5-1 µg 2 µL 0.6 µL 0.6 µL	concentration - 1X 3 mM 3 mM	
Manuel	Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer B ATP (100 mM) UTP (100 mM) CTP (100 mM)	0.5-1 µg 2 µL 0.6 µL 0.6 µL 0.6 µL	concentration - 1X 3 mM 3 mM 3 mM	
Manuel	Nuclease-Free H2OTemplate DNA10X RNA Polymerase Reaction Buffer BATP (100 mM)UTP (100 mM)CTP (100 mM)GTP (100 mM)	0.5-1 µg 2 µL 0.6 µL 0.6 µL 0.6 µL 0.6 µL	concentration - 1X 3 mM 3 mM 3 mM 3 mM	
Manuel	Nuclease-Free H2OTemplate DNA10X RNA Polymerase Reaction Buffer BATP (100 mM)UTP (100 mM)CTP (100 mM)GTP (100 mM)100 mM DTT	0.5-1 μg 2 μL 0.6 μL 0.6 μL 0.6 μL 0.6 μL 2 μL	concentration - 1X 3 mM 3 mM 3 mM 3 mM	

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	 Incubate at 37°C for 30 minutes to 2 hours. Above reaction mixture may be scaled up or down proportionately. 	
Storage Buffer	T7 RNA Polymerase is supplied in 100 mM Tris-HCI (pH 7.9), 20 mM KCI, 1 mM DTT, 1 mM EDTA, 0.1% Triton® X-100 and 50% (v/v) glycerol.	
Storage	Stored at -20°C. <u>For optimal storage, aliquot the reaction buffer and DTT</u> reagent into smaller quantities and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.	
Notes	 Transcription reaction should be performed under RNase free condition. Use nuclease-free tubes, reagents, and water to avoid RNase contamination. Also, gloves when working with RNA. The volume of T7 RNA Polymerase can be titrated between 1-2 μL in the IVT reaction to optimize your assay. 	

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