

T7 RNA Polymerase Transcription Buffer Set

v. 230501

Catalog number	С15027-К01 / С15027-К02					
			C150	27-K01	C15027-K02	
	T7 RNA Polymerase (200 U/µL)		10,000 U		25,000 U	
	10X RNA Polymerase Reaction Buffer A		0.5 mL		1 mL	
	10X RNA Polymerase Reaction Buffer B		0.5 mL		1 mL	
Package &	10X RNA Polymerase Reaction Buffer C		0.5 mL		1 mL	
Component	10X RNA Polymerase Reaction Buffer D		0.5 mL		1 mL	
	10X RNA Polymerase Reaction Buffer E		0.5 mL		1 mL	
	10X RNA Polymerase Reaction Buffer F		0.5 mL		1 mL	
	10X RNA Polymerase Reaction Buffer G		0.5 mL		1 mL	
	100 mM DTT		0.5 mL		1 mL	
	Standard RNA synthesis procedures: 1. Below reaction mixture should be prepared under room temperature and combined in the following order:					
		be prepai	red und	ler room	temperature a	
	combined in the following order:		T		-	
	combined in the following order: Component	Amou	ınt		temperature a	
	combined in the following order: Component Nuclease-Free H ₂ O	Αmoι Χ μΙ	int -		-	
	combined in the following order: Component	Amou	unt - µg		-	
Manuel	combined in the following order: Component Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction	Αmot Χ μΙ 0.5-1	int - μg -		oncentration - -	
Manuel	combined in the following order: Component Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer	Αποι Χ μΙ 0.5-1 2 μΙ	unt 		oncentration - - 1 X	
Manuel	combined in the following order: Component Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer ATP (100 mM)	Α mou X μl 0.5-1 2 μl 1 μl	unt - μg - -		oncentration - - 1 X 5 mM	
Manuel	combined in the following order: Component Nuclease-Free H ₂ O Template DNA 10X RNA Polymerase Reaction Buffer ATP (100 mM) UTP (100 mM)	Αποι Χ μΙ 0.5-1 2 μΙ 1 μΙ	unt 		oncentration - - 1 X 5 mM 5 mM	
Manuel	combined in the following order:ComponentNuclease-Free H2OTemplate DNA10X RNA Polymerase ReactionBufferATP (100 mM)UTP (100 mM)CTP (100 mM)	Αποι X μΙ 0.5-1 2 μΙ 1 μΙ 1 μΙ	unt - μg - - - -	Final c	oncentration - - 1 X 5 mM 5 mM 5 mM	
Manuel	combined in the following order:ComponentNuclease-Free H2OTemplate DNA10X RNA Polymerase ReactionBufferATP (100 mM)UTP (100 mM)CTP (100 mM)GTP (100 mM)	Α mou X μl 0.5-1 2 μl 1 μl 1 μl 1 μl	unt - μg - - - - - -	Final c	oncentration - - 1 X 5 mM 5 mM 5 mM 5 mM	
Manuel	combined in the following order:ComponentNuclease-Free H2OTemplate DNA10X RNA Polymerase ReactionBufferATP (100 mM)UTP (100 mM)CTP (100 mM)GTP (100 mM)100 mM DTT	Αποι X μl 0.5-1 2 μl 1 μl 1 μl 1 μl 2 μl	unt 	Final c	oncentration - - 1 X 5 mM 5 mM 5 mM 5 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	Stored at -20°C. For optimal storage, aliquot the enzyme, reaction buffer and DTT reagent into smaller quantities and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.				
	 Transcription reaction should be performed under RNase free condition. Use nuclease-free tubes, reagents, and water to avoid RNase contamination. Also, wear gloves when working with RNA. 				
Notes	 To obtain optimal condition, NTP concentration can be titrated between 5 – 10 mM. 				
	 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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