

PRODUCT INFORMATION

## **T7 RNA Polymerase Transcription Buffer Set**

v. 231001

Catalog number			C150	27-K01	C15027-K02
	T7 RNA Polymerase (200 U/µL)	TZ RNA Polymerase (200 U/uL)		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
	10X RNA Polymerase Reaction Buffer C		0.5 mL		1 mL
Package &	10X RNA Polymerase Reaction But	ffer D	0.5 mL		1 mL
Component	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
	10X RNA Polymerase Reaction But	uffer H 0.5 mL		5 mL	1 mL
	10X RNA Polymerase Reaction But	ffer I	0.5 mL		1 mL
	100 mM DTT		0.5 mL		1 mL
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	RNase inhibitor (optional)	0.5 µL	1 U/µL		
	Total reaction volume	20 µL	-		
	2. Incubate at 37°C for 30 minutes to 2 hours.				
	3. Above reaction mixture may be scaled up or down proportionately.				
Storage	Store at -20°C for up to 6 months, and it is recommended to store at -80°C for long-term preservation. Avoid repeated freeze/thaw cycles.				
Handling Instruction	For optimal storage, aliquot the enzyme, reaction buffer and DTT reagent into smaller quantities and store at recommended temperature. Avoid extended exposure to ice; instead, promptly retrieve the required portion and return it to the appropriate storage temperature.				
Notes	<ol> <li>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.</li> <li>To obtain optimal condition, NTP concentration can be titrated between 3 – 5 mM.</li> <li>The volume of T7 RNA Polymerase can be titrated between 1-2 µL in the IVT reaction to optimize your assay.</li> </ol>				

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