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Product Specification

Product Name: T7 RNA Polymerase - recombinant, expressed in E. coli, buffered aqueous solution

Product Number: CAS Number: MDL: Storage Temperature:	R0884 9014-24-8 MFCD00132197		
	-20 °C		
TEST		Specification	
units/ml		10000 - 50000	
Unit Definition: One unit is the into acid-insoluble material in	•	quired to catalyze the incorporation of 1 nmol of nucleoside triphospha	ate
Test of Function		Conforms	
> 50% of the label is incorp	orated into RNA in 30 minutes at 3	7 deg C under standard assay conditions	
		f T7 RNA Polymerase, 500 μM ATP, CTP & GTP, 50 μCi [alpha-32P] transcription buffer, and nuclease-free water to achieve a final reaction	
Endonuclease		Conforms	
Meets or exceeds specificatio agarose gel electrophresis.	n when a sample is incubated for 1	4-16 hours with 300 ng supercoiled plasmid DNA and analyzed by	
Exonuclease		Conforms	
Meets or exceeds specificatio analyzed by PAGE.	n when a sample is incubated for 1	4-16 hours with 40 ng 32P-labeled Sau3A fragments of pUC19 and	
RNAse Activity		Conforms	
Meets or exceeds specificatio	n when a sample is incubated for 1	4-16 hours with 25 ng 32P-labeled RNA and analyzed by PAGE.	
Specification: PRD.1.ZQ5.100000	09349		

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.