## Certificate of analysis

Product Name/Description:	T7 RNA Polymerase ver.2.0		
Cat. #:	2541A		
Lot #:	Specified on product label		
Storage Conditions:	-20 degrees C		
Expiration Date:	Specified on product label or package		
Package Size:	20000 U		
Package Contents:	1. T7 RNA Polymerase ver.2.0	200 U/µ1	20 KU
	2. 10X T7 RNA Polymerase Buffer	10X	1 ml
Source:	Escherichia coli carrying a plasmid containing the gene for phage T7 RNA polymerase		
Unit Definition:	One unit is defined as the amount of enzyme that incorporates 1 nmol of [3H]GMP into the acid-insoluble fraction in 1 hour at 37°C.		
Quality Control Data:	Nuclease contamination tests: Nuclease activities were not obviously detected in any of the following tests by agarose-gel electrophoresis. 1) Incubating 1 μg of λ DNA-Hind III digest with 250 units of the enzyme for 16 hours at 37°C. 2) Incubating 1 μg of supercoiled pBR322 DNA with 250 units of the enzyme for 4 hours at 37°C. 3) Incubating 1 μg of 16S, 23S rRNA with 250 units of the enzyme for 4 hours at 37°C. Protein purity: The enzyme was detected as a main band of approximately 98.8 kDa protein in SDS-PAGE analysis. Functional test: In vitro transcription was performed in a 20 μl reaction using 200 units of the enzyme and its reaction buffer. It resulted in the production of a minimum of 65 μg RNA.		

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.

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Notice To Purchaser:

Please refer to the website.

## Product Documents, Patent Markings, Trademarks, & Safety Information:

Refer to website for availability to download or contact your local office: www.takara-bio.co.jp (Japanese) www.takarabio.com (English)

## Licence Statements:

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