

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/μl 20 KU

2. 10X T7 RNA Polymerase Buffer 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 λDNA -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 μ l 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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