

# Certificate of analysis

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**Product Name/Description:** PrimeScript™ Reverse Transcriptase  
**Cat. #:** 2680A  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 10000 U

**Package Contents:**

1. PrimeScript RTase	200 U/μl	10 kU
2. 5X PrimeScript Buffer		500 μl

**Source:** E. coli carrying the plasmid that encodes reverse transcriptase gene.

**Quality Control Data:**

1st - strand cDNA synthesis test:

According to the standard protocol, 1st strand cDNA was synthesized by incubating 100 ng of total RNA prepared from rat brain and 50 pmol of Oligo dT primer with 200 units of this enzyme for 60 minutes at 42°C. Then, PCR was performed with this RT reactant as a template and it was confirmed by agarose gel electrophoresis that the 12 kbp target was properly amplified by PCR.

Nuclease contamination test:

Nuclease activity in this product was not detected by agarose gel electrophoresis following each reaction below:

- 1) Incubating 1 μg of λ-Hind III digest with 200 units of the enzyme for 1 hour at 37°C.
- 2) Incubating 1 μg of supercoiled pBR322 DNA with 200 units of the enzyme for 1 hour at 37°C.
- 3) Incubating 1 μg of 16S, 23S rRNA with 200 units of the enzyme for 1 hour at 37°C.

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

**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](http://www.takara-bio.co.jp) (Japanese)  
[www.takarabio.com](http://www.takarabio.com) (English)

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