

# Certificate of analysis

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**Product Name/Description:** Recombinant RNase Inhibitor ver.2.0  
**Cat. #:** 2315A  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 5000 U

**Package Contents:** 1. Recombinant RNase Inhibitor ver.2.0 40 U/μl 5000 U

**Source:** Escherichia coli carrying the plasmid containing the gene for ribonuclease inhibitor from porcine liver

**Unit Definition:** One unit is defined as the amount of protein that inhibits 50% of RNase A activity, when 2',3'-cyclic CMP is used as the substrate for 5 ng of RNase A.

**Quality Control Data:**

Nuclease contamination tests:

Nuclease activity was not detected in any of the following tests by agarose-gel electrophoresis:

- 1) Incubating 1 μg of λDNA-Hind III digest with 300 units of the protein for 1 hour at 37°C.
- 2) Incubating 1 μg of supercoiled pBR322 DNA with 300 units of the protein for 1 hour at 37°C.
- 3) Incubating 1 μg of 16S, 23S rRNA with 100 units of the protein for 1 hour at 37°C.

Protein purity test:

The protein was detected as a single band with a molecular mass of approximately 52 kDa in SDS-PAGE analysis.

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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