

# Certificate of analysis

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**Product Name/Description:** Reverse Transcriptase XL (AMV) for RT-PCR Kit

**Cat. #:** 2630A

**Lot #:** Specified on product label

**Storage Conditions:** -80 degrees C

**Expiration Date:** Specified on product label or package

**Package Size:** 250 U

**Package Contents:** 1. AMV RTase XL for RT-PCR Kit 5 U/ $\mu$ l 250 U

**Note:**

- Repeated freezing and thawing results in loss of enzyme activity. Do not store this enzyme in a frost-free freezer.
- The optimum temperature range appears to be 42 - 58°C.
- When performing cDNA synthesis at temperature higher than 50°C, a short pre-incubation at 42°C for 4 minutes is recommended.
- Concentration and specific activity are specified on product label.

**Source:** Avian myeloblastosis virus

**Unit Definition:** One unit is defined as the amount of RTase XL (AMV) required to catalyze the incorporation of one nmol of dTTP into an acid-insoluble product in 10 minutes at 37°C using poly (rA) • (dT)12-18 as template primer.

**Quality Control Data:**

1st strand cDNA extension test:

According to the standard protocol, 1st strand cDNA was synthesized by incubating 1  $\mu$ g of HL60 total RNA and 2.5 pmol of Oligo dT primer with 2.5 units of this product at 42°C for 15 minutes. Then, PCR was performed using the synthesized cDNA as a template and it was confirmed by agarose gel electrophoresis that the 4.4 kbp target region was properly amplified.

DNase and RNase Contamination test:

DNase and RNase in RTase XL (AMV) were assayed according to our prescribed method. DNase and RNase contents of this product were below a standard value.

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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