

# Certificate of analysis

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**Product Name/Description:** phi29 DNA Polymerase  
**Cat. #:** RR340A  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 250 U

<b>Package Contents:</b>	1. phi29 DNA Polymerase	10 U/μl	250 U
	2. 10X phi29 DNA Polymerase Reaction Buffer		250 μl
	3. dNTP Mixture	10 mM each	100 μl

**Source:** Escherichia coli carrying a plasmid containing the gene for phi29 DNA Polymerase.

**Unit Definition:** One unit is defined as the amount of enzyme required to incorporate 20 pmol of dNTP's into acid insoluble material in 10 minutes at 30°C.

**Quality Control Data:**

Functional test:

In the 20 μl reaction system, 0.5 ng of pUC19 was amplified by using 10 units of phi29 DNA Polymerase and 1 nmol of 3' PS-modified Random Hexamer for 2 hours at 30°C. No amplification was observed without pUC19 and 5000 ng or more of the amplicon was obtained with 0.5 ng of pUC19.

Nuclease contamination tests:

Nuclease activities were not obviously detected in any of the following tests by agarose-gel electrophoresis.

- 1) Incubating 1 μg of supercoiled pBR322 DNA with 10 units of the enzyme for 2 hours at 37°C.
- 2) Incubating 1 μg of λDNA with 10 units of the enzyme for 2 hours at 37°C.
- 3) Incubating 1 μg of 16S, 23S rRNA with 10 units of the enzyme for 2 hours 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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