

# Certificate of analysis

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**Product Name/Description:** DNA Ligation Kit <Mighty Mix>  
**Cat. #:** 6023  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 1 Kit

**Package Contents:** 1. Ligation Mix 150 µl x 5

## Quality Control Data:

This product was tested with the following ligation reactions according to the user manual. Each of the ligation mixtures was used to transform E. coli JM109 Competent Cells (Cat.# 9052) and transformants were selected with ampicillin, X-Gal, and IPTG.

### Cohesive-end ligation test:

A Hind III-digested DNA fragment (564 bp) was ligated to pUC 118 Hind III/BAP vector (Cat.# 3324) with this product. The transformation efficiency for white colonies was  $\geq 4.0E+06$  cfu/µg vector.

### Blunt-end ligation test:

A Hinc II-digested DNA fragment (500 bp) was ligated to pUC118 Hinc II/BAP vector (Cat.# 3322) with this product. The transformation efficiency for white colonies was  $\geq 2.0E+06$  cfu/µg vector.

### TA cloning test:

A 500 bp DNA fragment with a cohesive A at each end was ligated to T-Vector pMD20 (Cat.# 3270) with this product. The transformation efficiency for white colonies was  $\geq 3.0E+06$  cfu/µg vector.

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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