

# Certificate of analysis

---

**Product Name/Description:** DNA Ligation Kit Ver.2.1  
**Cat. #:** 6022  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 1 Kit

<b>Package Contents:</b>	1. Solution I	250 µl	x 3
	2. Solution II	750 µl	
	3. Solution III	200 µl	

**Quality Control Data:**

This product was tested with the following cloning reactions according to the User Manual.

**Blunt-end ligation test:**

A 15 µl ligation reaction mixture was prepared with 50 ng (25 fmol) of Hinc II-digested pUC118 vector (BAP-treated) (Cat.# 3322), 25 ng (75 fmol) of 500 bp Hinc II-digested DNA fragment, and 7.5µl of Enzyme Solution of this product. After incubation of the mixture at 16°C, E. coli JM109 competent cells (Cat.# 9052,  $\geq 1.0E+08$  cfu/µg pUC19) were transformed with a portion of the mixture, and were plated on LB-Amp plates including X-Gal and IPTG, then the plates were incubated at 37°C. The transformation efficiency for white colonies was more than  $1.0E+06$  cfu/µg vector.

**TA cloning test:**

A 10 µl ligation reaction mixture was prepared with 50 ng (28 fmol) of T-Vector pMD20 (Cat.# 3270), 14 ng (42 fmol) of DNA fragment (500 bp), and 5µl of Enzyme Solution of this product. After incubation of the mixture at 16°C, E. coli JM109 competent cells (Cat.# 9052,  $\geq 1.0E+08$  cfu/µg pUC19) were transformed with a portion of the mixture, and were plated on LB-Amp plates including X-Gal and IPTG, then the plates were incubated at 37°C. The transformation efficiency for the white colonies was more than  $2.0E+06$  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)

**Licence Statements:**

Please visit our website and click the "license" button on the product's web page.

**©2018 Takara Bio Inc. All Rights Reserved.**

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.