

# Certificate of Analysis



**PRODUCT:** T4 DNA Ligase

**CAT. NO.**  
FL101

**AMOUNT**  
2 bags

**LOT NUMBER**  
Q10314

**SHELF LIFE**  
at -20°C for two years

**STORAGE CONDITIONS**  
at -20°C for two years

**SHIPPING CONDITIONS**  
Dry ice (-70 °C)

## DESCRIPTION

T4 DNA Ligase catalyzes the formation of a phosphodiester bond between juxtaposed 5'-phosphate and 3'-hydroxyl termini in duplex DNA or RNA with blunt or cohesive end. The enzyme repairs single-strand nicks in duplex DNA, RNA or DNA/RNA hybrids but has no activity on single-strand nucleic acids. T4 DNA Ligase requires ATP as a cofactor.

## PACKAGE CONTENTS

Component	FL101-01	FL101-02
T4 DNA Ligase	10000 units	2×10000 units
5×T4 DNA Ligase Buffer	500 µl	2× 500 µl

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## QUALITY CONTROL DATA

Assay	Standard	Result
Number of clones and cloning efficiency	1. When the cell efficiency $\geq 1.0 \times 10^9$ , Positive clones $\geq 300$	Meets standards
	2. Cloning efficiency $\geq 80\%$	Meets standards
Positive rate of PCR identification	Not less than 80%	Meets standards



# Notice to Purchaser

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All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

TransGen Biotech products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of TransGen Biotech Co., Ltd.

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A handwritten signature in black ink that reads "Heng Zheng". The signature is written in a cursive style with a horizontal line underneath.

Manager, Quality Control Department

18/03/2022