

Quick Guide

Beyond the PCR technology,
BIOFACT promises the progress for your research.



BioFACT™ T4 DNA Ligase

[Cat. No. DL101-40k]

Contents	DL101-40k
T4 DNA Ligase	40,000 U
10X Ligase Buffer	1 ml

Description

T4 DNA Ligase는 ATP를 cofactor로 사용하여 병렬로 놓인 5'-phosphate와 3'-OH의 phosphodiester 결합을 형성, 연결시켜 주는 효소입니다. 또한 cohesive end, blunt end를 모두 연결시킬 수 있으며, double strand 중 한 쪽 strand에 발생한 nick을 연결하는 데도 사용합니다.

제품 특징 (Feature)

• Source : *Bacteriophage T4*

• Unit Description

One unit is defined as the amount of enzyme required to give 50% ligation of *Hind III* fragments of λ DNA (5' DNA termini concentration of 0.12 uM, 300- μ g/ml) in a total reaction volume of 20 μ l in 30 minutes at 16°C in 1X Ligase Buffer.

Protocol

1. Reaction Mixture

Mixture (Reaction vol.: 10 μ l)	
Vector DNA (50 ng ~ 200 ng)	- μ l
Insert DNA (3 ~ 10 times concentration)	- μ l
10X Ligase Buffer	1 μ l
T4 Ligase (400U/ μ l)	1 μ l
Add D.W to	10 μ l

2. At 16°C for 2 hours or at room temperature (20~25°C) for 1 hour

3. Heat inactivation (70°C 10min)

4. Transformation

✓ Storage Buffer

- 10 mM Tris-Cl (pH 7.4)
- 1 mM DTT
- 0.1 mM EDTA
- 50 mM KCl
- 0.1 mg/ml BSA
- 50 % Glycerol

Expiration Date : -20±5 °C 보관 시 2년 3개월



Please contact us,
if you have any question and need help.

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2017. 04. 17 (설명서 개정일)

Related Products

Group	Real-Time PCR	Purification	Instrument	Electrophoresis
제품사진				
제품명	- BioFACT™ Real-Time PCR Kit - BioFACT™ 2X Multi-Star Real-Time PCR Master Mix - BioFACT™ OneStep Multi-Star qRT PCR Kit - BioFACT™ 2X Real-Time PCR Master Mix	- HiGene™ Plasmid Mini Prep Kit - HiGene™ Gel & PCR Purification System - HiGene™ Genomic DNA Prep Kit (Column Type, Solution Type) - HiGene™ Total RNA Prep Kit	- Hush Run™ Thermal Cycler - SimpliAmp™ Thermal Cycler - Mini Heating Dry Bath - BIOZONE Air Sterilizer	- gel-rose™ Agarose - EcoDye™ Nucleic Acid Staining Solution - BioFACT™ 1Kb Plus DNA Ladder - BioFACT™ 100bp Plus DNA Ladder