Manual

Version 3.1

Product name: DNA Ligation Kit

Cat #: NGDL-100, NGDL-200

Description:

The MCLAB DNA Ligation Kit is used to ligate DNA adapters to dA-Tailed DNA fragments. The kit has been optimized to maximize efficiency and convenience in DNA sample preparation workflow.

Components:

Sufficient reagents are supplied in MCLAB's DNA Ligation Kit to process 20 or 100 DNA samples.

DNA Ligation Kit (20 reactions):
Ligation Enzyme Mix: 110 µl
Ligation Buffer: 550 µl

DNA Ligation Kit (100 reactions):
Ligation EnzymeMix: 550 µl
Ligation Buffer: 1.5 x 2 ml

Recommended Storage Condition: -20°C

Protocol:

1. End Repaired, Blunt or dA-Tailed DNA at volume of ≤ 20 µL.
2. Mix the components in a sterile PCR tube as below:

Component	Volume
End repaired, blunt or dA-Tailed DNA	Up to 20 µL
2x Ligation Buffer	25 µL
Ligation Enzyme Mix	5 µL
Nuclease-free Water	Add till to final 50 µL
Total Volume	50 µL

3. Incubate in a thermal cycler at 25°C for 20 minutes.
4. Purify the ligated DNA sample through a MinElute (Qiagen) column or AMPure XP (Beckman Coulter, Inc.) beads following the manufacture's instruction.