

Manual

Product name: DNA dA-Tailing Kit

Cat #: NGDT-100, NGDT-200

Description:

The MCLAB DNA dA-Tailing Kit is used to add an "A" base to the 3' end of a blunt phosphorylated DNA fragment. This treatment creates compatible overhangs for next step of DNA sample preparation. The kit has been optimized to maximize efficiency and convenience in DNA sample preparation workflow for next-generation sequencing.

Components:

Sufficient reagents are supplied in the MCLAB DNA dA-Tailing Kit to process 20 or 100 DNA samples.

DNA dA-Tailing Kit (20 reactions) (NGDT-100):

dA-Tailing Enzyme: 20 μ l

dA-Tailing Buffer: 200 μ l

DNA dA-Tailing Kit (100 reactions) (NGDT-200):

dA-Tailing Enzyme: 100 μ l

dA-Tailing Buffer: 1 ml

Recommended Storage Conditions: -20°C

Protocol:

1. Prepare 1-5 μ g of end repaired, blunt DNA (100-1000 bp) \leq 40 μ L.
2. Mix the components in a sterile PCR tube as below:

Component	Volume
End repaired, blunt DNA	1-5 μ g
5 x dA-Tailing Buffer	10 μ L
dA-Tailing Enzyme	1 μ L
Nuclease-free Water	Add up to 50 μ L
Total Volume	50 μ L

3. Incubate in a thermal cycler at 37°C for 30 minutes.
4. Purify dA-Tailed DNA sample through MinElute (Qiagen) column or AMPure XP (Beckman Coulter, Inc.) beads following manufacturer's instructions.