CYCV06-CHANGYU Blunt-End DNA A-Tailing Kit

Contents	25 reactions (CYCV0601)	50 reactions (CYCV0602)
Taq DNA polymerase	25 μl	50 μl
10× A-tailing buffer	25 μl	50 μl
dATP Mix	25 μl	50 μl

Note: Store at -20 °C.

Description

PCR products amplified by high-fidelity DNA polymerases with 3'-to-5' exonuclease activity, such as Pfu, Pwo, Vent or KOD, are blunt-end DNA fragments without A overhangs. To ligate such a fragment to the T overhang of a T vector, an A overhang must first be added with Taq DNA polymerase. This kit provides all components required for A-tailing, and the whole process can be completed in about 20 minutes.

❖ Procedure

1. Purify the blunt-end PCR product by PCR clean-up (no non-specific amplification) or gel extraction (with non-specific amplification).

2. Set up the A-tailing reaction with the purified blunt-end DNA fragment as follows:

Blunt-end DNA fragment	7 μl (not more than 1 μg)
dATP Mix	1 μl
10× A-tailing buffer	1 μl
Taq DNA polymerase	1 μl

3. Mix gently and incubate at 72 °C for 20-30 minutes.

4. The A-tailed product can be used directly for ligation without further clean-up or gel extraction.

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.