

FILLING IN STAGGERED DNA ENDS

5' protruding ends

1. Set up:

- 20 μ l DNA sample (up to 1 μ g)
- 3 μ l 10 x polymerase buffer (manufacturer's)
- 3 μ l 0.5mM dNTP mix
- 1 μ l Klenow polymerase

Incubate at 25°C for 15'.

2. Add 1 μ l 0.5 M EDTA, heat at 70°C for 10'.
3. Extract 2 x with phenol/chloroform.
4. Ethanol precipitate.

3' protruding ends

1. Set up:

- 23 μ l DNA sample (up to 1 μ g)
- 3 μ l 10 x T4 polymerase buffer (manufacturer's)
- 3 μ l 0.5mM dNTP mix
- 1 μ l T4 DNA polymerase

Incubate at 37°C for 15'.

2. Add 1 μ l 0.5 M EDTA, heat at 65°C for 5'.
3. Extract 2 x with phenol/chloroform.
4. Ethanol precipitate.