

Preparation of Adaptor : Insertion into Vector.

1. Purify linkers from Column and gel purify if greater than 25mer using 18% PAGE 0.5X TBE isolating full length linker by UV shadowing.
2. Incubate crushed gel slice in 0.3M NaCH₃COO o/n at 37°C. Spin out at R. temp 15 mins
3. Phenol/CHCl₃/IAA extract aqueous layer and EtOH ppt linkers. Wash in 70% and dry. Resuspend in 100µl sterile H₂O.
4. Take O.D reading. Calculate Concentration.
5. Add linker to a 1.5mls eppendorf tube to a final concentration of 500ng/µl in 50µl to 100µl total volume.
1µl = 500ng.
6. Add 5mM NaCl 1µl for 50µl ; 2µl for 100µl volume.
7. Heat at 95°C - 100°C for 15 mins.
8. Allow to cool slowly to room temperature in H₂O bath.
9. Adaptor can be store at -20°C for future use.

INSERTION:

1. Add 500ng linker to 500ng DNA.
2. Ligate at 16°C o/n
3. Heat to 70°C 5-10 mins.
4. PPT DNA w/ PEG, NaCl (20% PEG / 2.5M NaCl)
(0.6 x Volume of PEG mixture)
5. Incubate 10 mins at 37°C. Microfuge 15 mins at R. temp
6. Wash in 70% EtOH twice.
7. Resuspend in 10µl H₂O. Heat at 70°C 5-10 mins.
8. Anneal at 37°C for 1 hour to allow slow annealing
9. Transform Bacteria.