LYSOZYME-TRITON PLASMID PREP

- 1) Grow up 5ml culture during the day; inoculate O/N culture 500 LB Broth in a 2L flask. Add appropriate antibiotic.
- 2) Harvest cells, 5K, 15 minutes. Beckman JA-10 rotor.
- 3) Resuspend into 12.0 ml, 25% sucrose, 0.05M tris pH 8.
- 4) Make fresh add 2.0 ml, 10mg lysozyme/ml.
 - 0.05M tris. pH 8
 - Incubate on ice for 15 minutes.
- 5) Add 4.0 ml 0.25M EDTA, pH 8. Incubate on ice for 15 minutes.
- 6) Add 16.0 ml 2% triton.
 - 0.05M tris, pH 8
 - 0.0625M EDTA, pH 8
 - Incubate on ice for 15 minutes
- 7) Pour into screw-top bottle.
 - Boil 10 minutes
 - Tighten lids
 - Spin 18K (30 minutes) in Beckman JA-10 rotor
 - 30 minutes
- 8) Recover supernatant into 50ml plastic tube. (Should produce 28-30
- ml, if not, re-boil and re-spin).
- 9) Add 0.96 g CsCl/ml of lysate recovered.
- 10) Add 0.036 ml of 10 mg EtBr/ml per ml of lysate recovered.
- 11) Pour into screw-top bottle, spin 18K, 30 minutes (to clear).
- 12) Filter through glass wool into Beckman Quick Seal (30 ml size) tubes. (12 cc syringe & 18 g needle, a bit of glass wool).
- 13) Balance tubes to within 0.01g, add oil (light mineral oil) and seal.
- 14) Spin in VTi 50 rotor, 48K, 16 hours.
- 15) Recover the bottom band and place into Beckman Quick Seal (5ml) tube, spin again in VTi 65, 55K, 5 hr or 48K O/N.
- 16) Recover bottom band and extract 4 times with Butanol/water saturated.
- 17) Add 2 volumes of TE to the bottom layer (contains DNA).
- 18) Add 2 volumes of 100% EtOH and precipitate O/N. (Don't add salt,
- you want to get rid of CsCl).
- 19) Spin 7.5K, 15 minutes in JS-13 rotor.
- 20) Wash 2 times with 70% EtOH and then dry.
- 21) Re-suspend in 200-400 μl of TE.
- 22) Add 3M NaOAc to make a 1:10 dilution of the NaOAc.
- 23) Transfer to Eppendorf tubes and do 2 PCI extractions (25:24:1) and 2
- CIA (24:1) extractions.
- 24) Precipitate DNA with 2 volumes of 100% EtOH O/N.
- 25) Wash 2 times with 70% EtOH and then dry.
- 26) Resuspend in 200-400 μ l of TE and take ODs.