## TITRE OF BACTERIOPHAGE

- 1. Plate 50æl of SURE cells directly onto an LB plate containing tetracycline. Incubate at 37 C overnight.
- 2. Pick a colony and onoculate into 5mL LB plus TET. Incubate To saturation at 37 C.
- 3. Make serial dilutions of stock bacteriophage.
- 4. Add 10æL of the appropriate phage dilutions to labelled 15mL Falcon tubes.
- 5. Add 0.3mL if saturated E. Coli to each of the phage suspensions. Let sit at room temperature for 20 min.
- 6. Move tubes to a 37 C waterbath or heat block for 10 min. At this time also melt some TOP agar in the microwave under the defrost setting for several min. or until completely melted.
- 7. Let TOP agar cool at room temp. For about 5 min.
- 8. Keep melted agar in a water bath at 45-50 C.
- 9. Take 3mL of the TOP agar and add to the E. coli/phage mixture. Quickly vortex and pour the contents of the tube onto a pre-warmed LB plate. Tilt the plate so as to get even distribution of the melted agar. (This step must be done quickly so that the agar doesn't solidify prematurely).
- 10. Do this for each of the phage dilutions and then place the plates into the 37 C incubator for 10-12 hours.
- 11. A plague can be picked from the plates which contain less than 100 plaques. Only plaques should be picked which have neighbouring plaques more than 1 cm away.

LARGE SCALE BACTERIOPHAGE PREP BUGS-18 1. Inoculate 500mL of LB with 100æl of SURE cells. Grow at 37 C with agitation for several hours. 2. Pick bacteriophage plaque from a plate and inoculate into 1mL of LB. Let stand at room temp. For 1-2 hours. 3. Inoculate bacterial culture with 1 mL of phage suspension. Grow at 37 C with agitation for 5-6 hours. 4. Spin down the suspension at 12,000g for 10 min. 5. Withdraw the supernatant( make sure not to disturb the bacterial pellet). 6. Add a few drops of Carbon Tetrachloride to the supernatant and store at 4 C. 7. See BUGS-17 to titre phage.