## For GST-tay purification

## Cell Lysis

Lysis Buffer

40mM HEPES, pH7.5

0.5 M NaCl

10% glycerol

0.1% NP40

Proteinase Inhibitor

## For 10cm plate:

- 1. Remove medium from the plate.
- 2. Wash cells with cold PBS. (10ml)
- (or 25 ml -) increase protein cont.) 3. Add 5ml lysis buffer to the plate.
- 4. Leave on ice for 10min.
- 5. Shake the plate and transfer the cell lystate to a 15ml conical tybe.
- 6. Centrifuge the lystate for 3-5min (2000rpm).
- 7. Recover the supernatant and store it at  $-80^{\circ}$ C.

GST fusion protein purification:

1. Add 7.5 mg glutathoine-agarose for each plate. Rotate at 4°C 60-90 min.

2. Load the mix into a mini-column. Wash with 5X5ml of buffer G plus 0.1%TritonX100 followed by 5X5ml of Buffer G.

3. Elute Gst fusion protein with Buffer G plus 10mM glutathoine(0.031g/10ml), pH8.0 (glutathoine is acidic so check pH of the final solution—need 12µl 10M NaOH to bring 10ml of glutathione solution back to 8.0) in the following manner: resuspend bea 10min, and the Buffer G 50mM Tris (pH8) 100mM NaCl 0.5mMEDTA resuspend beads in 1ml glutathione solution, incubate at room temperature for 10min, and then elute. Repeat elution 4 more times.

1mMDTT

10% glycerol