Protein induction and lysis protocol – CT-BPI

Grow Bacteria

- 1. Using **CT-BPI Pet101D in BL21 cells,** Inoculate 5ml of LB + 1% glucose and 1:1,000 Ampicillin
 - a. Glucose stock 36%= 138.8ul
 - b. 5ul of ampicillin
- 2. Incubate overnight shaking at 37'
- 3. Inoculate 2x15ml of LB + 1:1,000 ampicillin (15ul of AMP) with 500ul of overnight growth
- 4. Incubate shaking at 37' until A600 (OD) = 0.5-0.8 (~2hr)

Induce

- 1. Add 7.5ul of 2M IPTG to one of the 15ml growths (induced sample)
- 2. Incubate 2hr at 37' shaking

Lyse ½ of the sample via freeze/thaw method and ½ via Guanidine lysis buffer

- 1. Transfer 7.5 ml bacteria into 2 tubes
- 2. Centrifuge at 12,000 RPM for 5 minutes
- 3. Wash with 7.5 ml of PBS

Tube 1:

Freeze and thaw the bacterial pellet 3 times

Re-suspend the pellet in 1ml of PBS

Freeze and thaw 3 more times

Add another 2ml of PBS

Tube 2:

Other tube- resuspend in 3ml guanidine lysis buffer

- 4. Sonicate 3x 5seconds on ice
- 5. Measure protein concentration using micro BCA protein concentration assay