## Superbroth recipe and growing HB101

Adapted from protocol by Michael Koelle and Tory Herman, by Erik Andersen May 20, 2011

**Superbroth** (2.5 L autoclaved in a 6 L flask)

30 g Bactotryptone 60 g yeast extract 20 mL 50% glycerol stock solution 2.25 liters DDW

Autoclave 30 minutes. Cool to < 60 °C.

Prepare 0.17M KH<sub>2</sub>PO<sub>4</sub>, 0.72M K<sub>2</sub>HPO<sub>4</sub> (46.2 g KH<sub>2</sub>PO<sub>4</sub>, 250.8 g K<sub>2</sub>HPO<sub>4</sub> per 2 liters), Aliquot 250 mL to a 500 mL bottle and autoclave.

When the superbroth is cooled, at 250 mL of sterile 0.17M KH<sub>2</sub>PO<sub>4</sub>, 0.72M K<sub>2</sub>HPO<sub>4</sub> to each flask.

## GROWING HB101 (or other *E. coli* strain)

- 1. Prepare 2.5 L of Superbroth a 6 L flask
- 2. Grow 5 mL of HB101 overnight for each 6 L flask.
- 3. Inoculate 5 mL of HB101 into each 6 L flask
- 4. Grow for 24 hours at 37° C with shaking
- 5. Spin down the bacteria
- 6. Do two washes using S basal by resuspending the bacterial pellet.
- 7. Pellet and either (1) weigh the pellet to get mg of bacteria to make w/v sample, or (2) add defined volume of S medium to make v/v sample.
- 8. Aliquot or store at 4°C for immediate use.