Tissue Culture Stocks

Pen/Strep (10mg/ml)

Penicillin

Dissolve 60g into 1 Liter of H2O

- X(10ml) = 2000units/ml (500ml serum)
- 2000units/ml represents 10x so when added to media the final concentration = 200units/ml
- \circ x = 1x10⁵ units/ml needed
- penicillin concentration = 1,666units/mg
 - \circ (mg/1666units)(1x10⁵units/ml) = 60mg/ml
 - Want 1 Liter thus (60 mg/ml)(1000/L) = 60 g

Streptomycin

- Dissolve 100g in the 1 Liter of H2O above (10mg/ml)
 - Want 1g Strep/10ml of Solution
 - Final concentration in media = $200 \mu g/ml$
 - o MW 1457g/mol
- Filter (0.2um bottle-top filter) and aliquot 10ml in 15ml Falcon.
- Working stock will be diluted in 500ml serum

Puromycin (1mg/ml)

- Located in freezer next to Bill's office
- Dissolve 1mg (powder = 544.4g/mol) in 1ml PBS to create stock solution
- ✤ For 25ml:
 - o 25mg Puro
 - \circ ~25ml PBS
 - Filter (0,2um filter)
 - Aliquot 10ml into 15ml Falcon
- Working stock is made by diluting 1:10
 - \circ 10ml tube (1mg/ml) into 90ml PBS

Hygromycin (10mg/ml)

- Dissolve 10mg/ml in PBS
- For 1L, filter, and aliquot into 100ml bottles:
 - Dissolve 10g in 1L PBS
- Working stock is diluted 100x

G418 (100mg/ml)

- ♣ For 500ml: (
 - o Dissolve 50g into 500ml PBS, filter, and aliquot into 100ml bottles

Trypsin (1x)

- Bottle (Gibco) is 10x (stockroom)
 - Pour 100ml out from 1L bottle of sterile PBS and replace by pouring (100ml) of 10x trypsin into PBS
 - DON'T FILTER
 - Aliquot into 100ml bottles