**Making stock antibiotics and other reagents**

When making stocks of antibiotics multiply the stock concentration (in grams) by the total volume needed to determine the amount of solid to weigh out.

Antibiotic Stock [ ] Final Volume Grams used

Ampicillin 100mg/ml 50ml 5

Carbenicillin 100mg/ml 50ml 5

Chloramphenicol 20mg/ml 50ml 1

Cycloheximide 50mg/ml 50ml 2.5

Gentamycin 5mg/ml 20ml 0.1

Kanamycin 50mg/ml 50ml 2.5

Nalidixic Acid 30mg/ml 50ml 1.5

Rifampicin 50mg/ml 30ml 1.5

Spectinomycin 60mg/ml 50ml 3

Streptomycin 100mg/ml 50ml 5

Tetracycline 10mg/ml 50ml 0.5

Media additives Concentration Final Volume Grams used

TTC 5% \* 50ml 2.5

Magnesium Sulfate 10% 200ml 20

 - Autoclave after preparation

Thiamine 0.2% 200ml 0.4

 - Do not autoclave. Filter using syringe before use

\*Note: The formula for weight percent (w/v) is: [Mass of solute (g) / Volume of solution (ml)] x 100. So a 5% solution has 5g of solute for every 100ml of solution.

Procedure for making antibiotic stocks:

Weigh out the appropriate amount of solid into 50ml conical tube. Add the appropriate amount and type of solution to tube. Vortex and shake to dissolve the solid; when the solid has fully dissolved filter (using .22um syringe filter) the contents into new labeled conical tube.