Preparing Antibiotic Solution:

To make up Ampicillin Stock solution

1. Take sterile/new 15ml centrifuge tube and add 1gram of ampicillin
2. Add sterile ultra-pure water to 10mls.
3. Take 10ml disposable sterile syringe and attach 2micron filter.
4. Filter out the antibiotic solution into a sterile 15 ml conical tube. Pipette this solution into 1ml aliquots into sterile 1.5 ml centrifuge tubes. Store at -20 degrees Celsius (Freezer).

   These stock solutions are 100mgs/ml.

   Working concentration of Ampicillin is 100-200 micrograms/ml

   1 liter of culture. Ampicillin stock 100mgs/ml. Working concentration 200 micrograms/ml. How much ampicillin stock solution do we need to add to our 1 liter culture? You would add 2 ml of the 100mgs/ml stock

   For 3 mls of culture you would add 6 uls of the Amp Stock

To make up Kanamycin Stock solution

1. Take sterile 15ml centrifuge tube and add 1gram of Kanamycin
2. Add sterile ultra-pure water to 10mls.
3. Take 10ml disposable sterile syringe and attach 2micron filter.
4. Filter out the antibiotic solution into a sterile 15 ml conical tube. Pipette this solution into 1ml aliquots into sterile 1.5 ml centrifuge tubes. Store at -20 degrees Celsius (Freezer).

   These stock solutions are 100mgs/ml.

   Working concentration of Kanamycin is 30-50 micrograms/ml

   1 liter of culture. Kanamycin stock 100mgs/ml. Working concentration 30 micrograms/ml. How much ampicillin stock solution do we need to add to our 1 liter culture? You would add .3 ml of the 100mgs/ml stock of Kanamycin.

   For 3 mls of culture you would add .9 uls of the Kan Stock

To make up Chloramphenicol Stock solution

5. Take sterile/new 15ml centrifuge tube and add .3 gram Chloramphenicol
6. Add 100% Ethanol to 10mls.
7. Take 10ml disposable sterile syringe and attach 2micron filter.
8. Filter out the antibiotic solution into a sterile 15 ml conical tube. Pipette this solution into 1ml aliquots into sterile 1.5 ml centrifuge tubes. Store at -20 degrees Celsius (Freezer).

These stock solutions are 30mgs/ml.

Working concentration of Chloramphenicol is 30 micrograms/ml

1 liter of culture. Chloramphenicol stock 30mgs/ml. Working concentration 30 micrograms/ml. How much Chloramphenicol stock solution do we need to add to our 1 liter culture? You would add 1 ml of the 30mgs/ml stock

For 3 mls of culture you would add 3 uls of the Chloramphenicol Stock