Antibiotic for Plasmid Selection

Chloramphenicol stock solution (10^5 ppm)

Antibiotic for plasmid selection → confers to chloramphenicol resistance.

Materials

Chloramphenicol
Absolute ethanol
10 mL sterile syringe
Sartorius syringe filter holder (0.20 µM)
1.5 mL sterilized tube

Method

a. Dissolve 1 gram of chloramphenicol in 10 mL absolute ethanol.
b. Filter sterilize using membrane millipore (0.20 µM).
c. Aliquot 1 mL of solution into 1.5 mL sterilized tube.
d. Chloramphenicol solution is ready to use or store at -20°C cabinet for preservation.

Kanamycin sulfate stock solution (10^5 ppm)

Antibiotic for plasmid selection → confers to kanamycin resistance.

Materials

Kanamycin sulfate
De-ion water
10 mL sterile syringe
Sartorius syringe filter holder (0.20 µM)
1.5 mL sterilized tube

Method

1. Dissolve 1 gram of kanamycin sulfate in 10 mL sterilized de-ion water.
2. Filter sterilize using membrane millipore (0.20 µM).
3. Aliquot 1 mL of solution into 1.5 mL sterilized tube.
4. Kanamycin solution is ready to use or store at -20°C cabinet for preservation.

Ampicillin stock solution (10^5 ppm)

Antibiotic for plasmid selection → confers to ampicillin resistance.

Materials

Ampicillin
De-ion water

10 mL sterile syringe
Sartorius syringe filter holder (0.20 µM)
1.5 mL sterilized tube

Method

1. Dissolve 1 gram of ampicillin in 10 mL sterilized de-ion water.
2. Filter sterilize using membrane millipore (0.20 µM).
3. Aliquot 1 mL of solution into 1.5 mL sterilized tube.
4. Ampicillin solution is ready to use or store at -20°C cabinet for preservation.