CCMB80 Buffer

Materials

10 mM potassium acetate (pH 7.0)
80 mM $CaCl_{2}.{}_{2}H_2O$
20 mM $MnCl_{2}.{}_{4}H_2O$
10 mM $MgCl_{2}.{}_{6}H_2O$
Sterilized de-ion water
10 mL sterile syringe
Sartorius syringe filter holder (0.20 µM)

Method

1. Dissolve the following buffers in sterilized de-ion water up to 100 mL.

Buffers	Volume
10 mM potassium acetate	1 mL
80 mM $CaCl_{2}.{}_{2}H_2O$	1.18 gram
20 mM $MnCl_{2}.{}_{4}H_2O$	0.4 gram
10 mM $MgCl_{2}.{}_{6}H_2O$	0.2 gram
Sterilized de-ion water	Up to 100 mL

2. Adjust the pH to 6.4 by adding concentrated HCl.
3. Filter sterilize using membrane millipore (0.20 µM) and store at 4°C.

Recipe

1 M potassium acetate stock solution (100 mL)

a. Dissolve 9.8 gram of potassium acetate in 100 mL sterilized de-ion water.
b. Adjust the pH to 7.0