M9 Minimal Medium Preparation

1. 5X M9 salt solution preparation:

To 400mL of ddH2O add:

a. 64g (**Na2HPO4•7H2O**)

b. 15g (**KH2PO4**)

c. 2.5g (**NaCl**)

d. 5.0g (**NH4Cl**)

Make to 1 L with ddH20

Sterilize by autoclaving

2. Preparation of 1 M MgSO4 solution:

To 100 mL ddH2O add:

a. 24.65 g (**MgSO4•7H2O**)

3. Preparation of 40% glucose (w/v) solution:

To 100 mL distilled/deionized water add:

a. 40 g (**glucose**)

Caution: **Add glucose to stirring water in beaker; Do not attempt to add water to GLUCOSE!**

4. Preparation of 1M CaCl2 solution:

To 100 mL ddH2O add:

a. 147.014g (**CaCl2·2dH20**)

Make to 1 L with dH20

5. Method for preparation of (1L of media) minimal medium:

I. 200 mL 5X M9 salts solution

II. 800 mL ddH2O

III. 2 mL of 1M MgSO4 solution

IV. 0.1 mL of 1M CaCl2 solution

(Our Lab put I-IV solutions together in order to make mixture buffer)

V. 10 mL of 40% glucose