

## **M9 Minimal Media**

Make M9 salts:

To make M9 Salts add 800ml H<sub>2</sub>O and : • 64g Na<sub>2</sub>HPO<sub>4</sub>-7H<sub>2</sub>O • 15g KH<sub>2</sub>PO<sub>4</sub> • 2.5g NaCl • 5.0g NH<sub>4</sub>Cl Stir until dissolved Adjust to 1000ml with distilled H<sub>2</sub>O Separate into 5 200 ml aliquots prior to autoclaving Sterilize by autoclaving 15 minutes on liquid setting

M9 Liquid Media

1. Measure ~700ml of distilled H<sub>2</sub>O (sterile)
2. Add 200ml of M9 salts
3. Add 2ml of 1M MgSO<sub>4</sub> (sterile)
4. Add 20 ml of 20% glucose (or other carbon source- 20% glycerol) (This is 0.4% final)
5. Add 100µl of 1M CaCl<sub>2</sub> (sterile)
6. Adjust to 1000ml with distilled H<sub>2</sub>O

Possible additives:

**Thiamine** 2.5 mg/ml, or 1mM

**Casamino Acids** 0.2-0.4% final

**1000× Glutamine** (C2984H cells require glutamine) - 20 mg/ml filter sterilized.

**1000× L-Arginine** (DH5a NEB cells require both glutamine & arginine) - Stock = 126 mg/ml filter sterilized.

**2000× Iron Supplement** 20 mM FeSO<sub>4</sub>