

**Hanks' Balanced Salt Solution (HBSS)**  
(Gibco Formula)

**Equipment:**

1 liter Beaker  
Stir plate & stir bar

Sterile 500ml bottles (x2)  
0.2  $\mu$ m Vacuum Filter

**Reagents:**

|         |                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------|
| 1000 ml | Distilled Water                                                                                 |
| 400 mg  | Potassium Chloride (KCl, FW=75; Sigma #P-4504)                                                  |
| 60 mg   | Potassium Phosphate, monobasic (KH <sub>2</sub> PO <sub>4</sub> , FW=136; Sigma #P-8416)        |
| 350 mg  | Sodium Bicarbonate (NaHCO <sub>3</sub> , FW=84; Sigma #S-5761)                                  |
| 8000 mg | Sodium Chloride (NaCl, FW=58.5; Sigma #S-5629)                                                  |
| 48 mg   | Sodium Phosphate, dibasic, anhydrous (Na <sub>2</sub> HPO <sub>4</sub> , FW=142; Sigma #S-5136) |
| 1000 mg | D-Glucose (Dextrose, FW=180; Sigma #G-7021)                                                     |
| 10 mg   | Phenol Red (FW=376.4; Sigma #P-5530)                                                            |

**Method:**

- 1) Dissolve all solids in distilled water.
- 2) Sterile filter into sterile 500ml bottles.