

## SOP-P002

### Preparation of 10x Ammonium Chloride Lysing Reagent

**Objective:** To prepare stock ammonium chloride solution for preparation of ammonium chloride whole blood lysing solution

**Procedure:**

1. Measure out 400 ml millipore filtered water in a graduated cylinder.
2. Pour into a clean beaker containing a stir bar.
3. While stirring gently on a magnetic stirplate, add the following to the beaker:
  - 40.1 g ammonium chloride (NH<sub>4</sub>Cl)
  - 4.2 g sodium bicarbonate (NaHCO<sub>3</sub>)
  - 1.85 g EDTA disodium
4. Stir until dissolved.
5. Remove stir bar and pour solution into a graduated cylinder.
6. Add millipore filtered water to the solution in the cylinder until the volume is 500 ml.
7. Put solution into a container such as a glass bottle with screw cap.
8. Label the bottle with content information, date, and your initials.
9. Store refrigerated at 0-5°C. Expiration date is six months from date of preparation.

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