

Ammonium Chloride Solution



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Reagent for lysis of red blood cells

Catalog # 07800	100 mL
07850	500 mL

Product Description

Ammonium Chloride Solution is recommended for lysis of red blood cells (RBCs) in preparations of human umbilical cord blood and human or mouse peripheral blood, spleen, or bone marrow cells.

This RBC lysis solution is buffered and optimized for gentle lysis of erythrocytes, with minimal effect on leukocytes. The solution does not contain a fixative agent, therefore leukocytes are viable following RBC lysis.

Properties

Storage: Store at -20°C.

Shelf Life: Stable until expiry date (EXP) on label.

Contains:

- 0.8% NH₄Cl
- 0.1 mM EDTA in water, buffered with KHCO₃ to achieve a final pH of 7.2 - 7.6

Handling / Directions For Use

NOTE: This product is shipped with ice packs and may arrive thawed. If product arrives thawed and is not used immediately, store at 2 - 8°C for up to 4 weeks or aliquot and store at -20°C. Do not exceed the expiry date as indicated on the label. After thawing aliquots, use immediately; do not re-freeze.

1. Thaw Ammonium Chloride Solution overnight at 2 - 8°C.

NOTE: If not used immediately, store at 2 - 8°C for up to 4 weeks. Alternatively, aliquot and store at -20°C. Do not exceed the expiry date as indicated on the label. After thawing aliquots, use immediately; do not re-freeze.

2. Add appropriate volume of Ammonium Chloride Solution to the sample being processed, as follows:

HUMAN BONE MARROW

Add Ammonium Chloride Solution to the sample at a volume:volume ratio of 4:1.

For example, add 4 mL of Ammonium Chloride Solution to 1 mL of sample.

HUMAN PERIPHERAL BLOOD, CORD BLOOD

Add Ammonium Chloride Solution to the sample at a volume:volume ratio of 9:1.

For example, add 9 mL of Ammonium Chloride Solution to 1 mL of sample.

MOUSE BONE MARROW, SPLEEN, PERIPHERAL BLOOD

Add Ammonium Chloride Solution to the sample at a volume:volume ratio of 9:1.

For example, add 9 mL of Ammonium Chloride Solution to 1 mL of sample.

3. Thoroughly mix the cell suspension by inverting the tube. Place on ice for 10 minutes.
4. Wash the cells twice in the appropriate medium prior to use.

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