

AfCS Solution Protocol

Reagent name: Red blood cell lysis buffer

Reagent name abbreviation: RBC lysis buffer

Protocol ID: PS00000002

Version: 01

Volume: 500 ml

Components:

Reagent	Source	Catalog or Protocol No.	F.W. or Stock Conc.	Quantity	Final Concentration
Ammonium chloride (NH ₄ Cl)	Sigma-Aldrich	A4514	53.49	4.14 g	155 mM
Potassium bicarbonate (KHCO ₃)	Fisher Biotech	P184-500	100.12	0.5 g	10 mM
0.5 M EDTA, pH 8.0	None	PS00000026	0.5 M	0.1 ml	0.1 mM
Hydrochloric acid (HCl), 1 N	None	PS00000034	NA	NA	1 N

Preparation:

1. Dissolve NH₄Cl and KHCO₃ in a beaker containing 450 ml of purified water by mixing with a stir bar.
2. Add EDTA to beaker.
3. Measure pH and adjust to 7.2 to 7.4 with 1 N HCl, if necessary.
4. Transfer solution to a 500-ml graduated cylinder and adjust the volume to 500 ml with purified water. Cover with Parafilm and mix thoroughly.
5. Sterilize by filtering through a 0.2- μ m Nalgene SFCA filter unit.

Storage:

Temperature: Room temperature

Location: _____

Aliquot size: NA

Special instructions: Use within 2 weeks.

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Comments: None