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Datasheet for R405-0005

Sheep Red Blood Cells 10% Washed Pooled Cells

Overview

Description:	SHEEP RED BLOOD CELLS (RBC) 10% Washed Pooled Cells - R405-0005
Item No.:	R405-0005
Size:	5 mL
Applications:	Cellular Assay, FC, Other
Origin:	Sheep

Product Details

Background:	Sheep whole blood is washed to remove the platelet rich plasma, buffy coat layer, and leukocytes (WBC). Red blood cells are supplied as a 10 percent suspension in phosphate buffered saline (PBS). Sheep red blood cells are useful for the titration of complement, adsorption procedures, testing for agglutinins/HA assays, and for the preparation of stroma as particulate reagents. Sheep red blood cells are perishable and are collected and processed upon receipt of your order.
Synonyms:	Sheep Washed Pooled Cells, Sheep WPCs, Sheep Red Blood Cells, Sheep RBCs, erythrocytes
Species of Origin:	Sheep

Target Details

Relevant Links:

- R405 SDS

Application Details

Suggested Applications:	Cellular Assay, FC, Other (Based on references)
Application Note:	Complement titration, adsorption procedures, HA assays and for the preparation of stroma as particulate reagents.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Tissue Data

Tissue Type:	Red Blood Cells
Sex:	Mixed
Strain:	Sheep - Mixed

Formulation

Physical State:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Sterility:	Non-sterile
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store sheep washed pooled red blood cells at 4° C prior to opening. Be advised that blood is a perishable product and exact shelf may depend on application.
Expiration:	This product MAY be stable for up to two (2) weeks if properly stored and handled.

References

- Blais A et al. PFOS and PFOA exposure induces liver injury and sex-dependent immune effects in C57BL/6 mice. *iScience.* (2026)
- DeFenza M et al. Dual-action thioarylamide-based small molecules to target drug-resistant bacteria and chronic inflammation. *iScience.* (2025)
- Schultz JR et al. Identification of 5-(Aryl/Heteroaryl)amino-4-quinolones as Potent Membrane-Disrupting Agents to Combat Antibiotic-Resistant Gram-Positive Bacteria. *J Med Chem.* (2022)
- Wang Y et al. Mitochondrial Fission Promotes the Continued Clearance of Apoptotic Cells by Macrophages. *Cell.* (2017)
- DeWitt JC et al. Suppression of antigen-specific antibody responses in mice exposed to perfluorooctanoic acid: Role of PPARα and T- and B-cell targeting. *J Immunotoxicol.* (2016)
- Eisenstein TK et al. Anandamide and Δ9-tetrahydrocannabinol directly inhibit cells of the immune system via CB2 receptors. *J Neuroimmunol.* (2007)
- Merchant ME et al. Identification of alternative pathway serum complement activity in the blood of the American alligator (Alligator mississippiensis). *Comp Biochem Physiol B Biochem Mol Biol.* (2005)
- Bussiere JL et al. Cytokine reversal of morphine-induced suppression of the antibody response. *J Pharmacol Exp Ther.* (1993)
- Albright JW et al. Fluctuations in subsets of splenocytes and isotypes of Ig in young adult and aged mice resulting from Trypanosoma musculi infections. *J Immunol.* (1990)

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