

Datasheet for R407-0100**Human Red Blood Cells 10% Washed Pooled Cells****Overview**

Description:	Human Red Blood Cells (RBC) 10% Washed Pooled Cells - R407-0100
Item No.:	R407-0100
Size:	100 mL
Applications:	Biochemical Assay
Origin:	Human

Product Details

Background:	Human 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). Human 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. Human red blood cells are perishable and are collected and processed upon receipt of your order.
Synonyms:	Human Washed Pooled Cells, Human WPCs, Human Red Blood Cells, Human RBCs, erythrocytes
Species of Origin:	Human

Application Details

Suggested Applications:	Biochemical Assay (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: Adult

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 human 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

- Dellis C et al. Identification of SQ109 analogs with enhanced antimicrobial activity against methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother.* (2026)
- Shehadeh F et al. CAMPER: mechanistic artificial intelligence for designing peptides that target MRSA persisters. *Nat Commun.* (2026)
- Tortorici MA et al. Loss of FCoV-23 spike domain 0 enhances fusogenicity and entry kinetics. *Nature.* (2025)
- Tharmalingam N et al. Mefloquine reduces the bacterial membrane fluidity of *Acinetobacter baumannii* and distorts the bacterial membrane when combined with polymyxin B. *mBio.* (2025)
- Lv X et al. Chemical and biological characterization of vaccine adjuvant QS-21 produced via plant cell culture. *iScience.* (2024)
- Culver KD et al. Identification and Characterization of CC-AMP1-like and CC-AMP2-like Peptides in *Capsicum* spp. *J Proteome Res.* (2024)
- Gong H et al. How do antimicrobial peptides disrupt the lipopolysaccharide membrane leaflet of Gram-negative bacteria?. *J Colloid Interface Sci.* (2023)
- Kitts, G et al. A Conserved Regulatory Circuit Controls Large Adhesins in *Vibrio cholerae*. *MBio* (2019)
- Johnston, T et al. Propyl-5-hydroxy-3-methyl-1-phenyl-1H-pyrazole-4-carbodithioate (HMPC): a new bacteriostatic agent against methicillin-resistant *Staphylococcus aureus*. *Scientific Reports* (2018)

Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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