

Datasheet for 01-1801-20**Red Blood Cell Depletion Magnetic Beads****Overview**

Description:	Red Blood Cell Depletion Magnetic Beads - 01-1801-20
Item No.:	01-1801-20
Size:	2.0 mL
Host Species:	Rabbit

Product Details

Background:	Red Blood Cell Depletion Magnetic Beads recognizes human red blood cells. Red Blood Cell Depletion Magnetic Beads is recommended for the depletion of human Red Blood Cells in samples prior to downstream immunological and non-immunological assays and has been tested in Flow Cytometry. Some additional assays could include Colony Forming Unit (CFU) Assay and Immunohistochemistry among others. These magnetic beads are uniform, non-aggregating, super-paramagnetic beads consisting of a ferric oxide core functionalized with various silane groups. The beads have a large surface area with high capture efficiencies. Bead mean diameter is ~0.5 μ m, bead concentration is 20 mg/mL.
Synonyms:	Red Blood Cell Depletion Magnetic Beads, Anti-RBC antibody, Red blood cell antibody, Antibody for hemagglutination, rabbit anti RBC, rabbit antibody to human red blood cells (RBC), haemolysin, hemolysin, erythrocytes sensitizing agent, anti-erythrocytes, anti-erythrocytes antibody, magnetic bead, nanoparticles, paramagnetic, Magnetic bead-conjugated
Host Species:	Rabbit
Conjugate:	Magnetic Bead
Clonality:	Polyclonal
Format:	IgG

Target Details

Immunogen Type:	Other
Immunogen:	Human washed pooled Red Blood Cells (RBC)
Relevant Links:	RBC Depletion Protocol - 01-1801-20

Application Details

Application Note:	Red Blood Cell Depletion Magnetic Beads have been tested in binding assays for separation of Red Blood Cells, from whole blood. Remaining white blood cells can be used for downstream assays such as immunoassays, Western blots, FACS, and immunohistochemistry. For 100 μ L of whole, fresh blood cells add 75 μ L of Depletion beads, expecting 75 – 95% depletion of RBC after one pass. Optimal amount for applications should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	User Optimized
WB:	User Optimized

Tissue Data

Tissue Type:	Red Blood Cells
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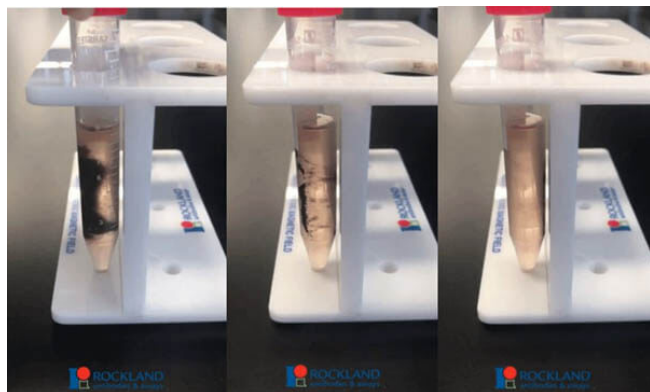
Formulation

Physical State:	Suspension of Magnetic Beads
Concentration:	20 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Sterility:	Non-sterile
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

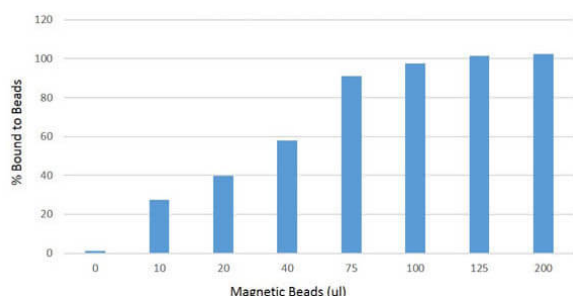
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. DO NOT FREEZE. The beads are in suspension and will settle upon storage. Prior to use, mix the vial gently (do not vortex) to ensure delivery of proper bead volume.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Vial

Red Blood Cell Depletion Magnetic Beads shown separating human RBCs using Rockland's 15/50 Tube TrueBlot® Magnetic Separator p/n TMS-15-5.



Diagram

Red Blood Cell Depletion Magnetic Beads. Binding expectancy of 10% human washed pooled cells or whole blood. Load: 100μL of 10% human washed pooled cells or whole blood. Bead volume: 10μL, bound 27.4%. Bead volume: 20μL, bound 39.8%. Bead volume: 40μL, bound 58.0%. Bead volume: 75μL, bound 91.0%. Bead volume: 100μL, bound 97.6%. Bead volume: 175μL, bound 100%. Bead volume: 200μL, bound 100%.

References

- Warren RL et al. Portable histone assay technology (PHAST) for the sample-to-answer detection of circulating histones in whole blood. *Sens Actuators B Chem.* (2026)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.