

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

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

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | 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 $\mu$ m, bead concentration is 20 mg/mL. |
| <b>Synonyms:</b>     | 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                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugate:</b>    | Magnetic Bead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Immunogen Type:</b> | Other                                                                                               |
| <b>Immunogen:</b>      | Human washed pooled Red Blood Cells (RBC)                                                           |
| <b>Relevant Links:</b> | <ul style="list-style-type: none"><li><a href="#">RBC Depletion Protocol - 01-1801-20</a></li></ul> |

## Application Details

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Note:</b> | 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 $\mu$ L of whole, fresh blood cells add 75 $\mu$ L of Depletion beads, expecting 75 – 95% depletion of RBC after one pass. Optimal amount for applications should be determined by the researcher. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>FC:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Tissue Data

|                     |                 |
|---------------------|-----------------|
| <b>Tissue Type:</b> | Red Blood Cells |
|---------------------|-----------------|

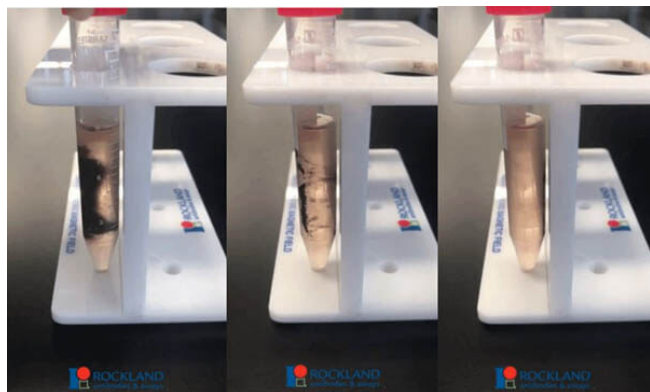
## Formulation

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

## Shipping & Handling

|                            |                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                   |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                     |

## Images

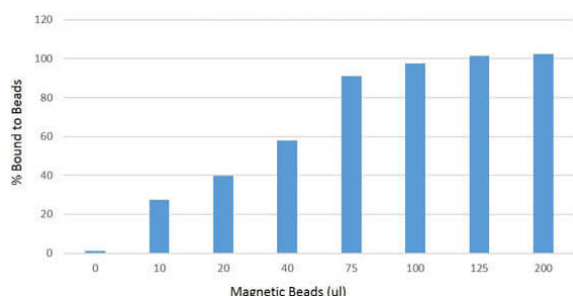


#### Vial

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: 100 $\mu$ L of 10% human washed pooled cells or whole blood. Bead volume: 10 $\mu$ L, bound 27.4%. Bead volume: 20 $\mu$ L, bound 39.8%. Bead volume: 40 $\mu$ L, bound 58.0%. Bead volume: 75 $\mu$ L, bound 91.0%. Bead volume: 100 $\mu$ L, bound 97.6%. Bead volume: 175 $\mu$ L, bound 100%. Bead volume: 200 $\mu$ L, bound 100%.



## Disclaimer

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