Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for B000-18-5

TrueBlot® Biotin Magnetic Beads

Overview

Description:	TrueBlot® Biotin Magnetic Beads - B000-18-5
Item No.:	B000-18-5
Size:	5 mL

Product Details

Background:	TrueBlot® Magnetic Beads are uniform, non-aggregating, super-paramagnetic beads consisting of a ferric oxide core functionalized with various silane groups. The super-paramagnetic nanoparticles are coupled with a biomolecule, such as Biotin, and are specifically designed, tested and quality controlled for magnetic separation, isolation and purification of avidin and streptavidin-labeled components using manual or automatic platforms. Biotin magnetic beads are stable, pre-blocked beads with high binding capacity that provide rapid and efficient biomolecule purification from complex samples. Bead mean diameter is ~0.5 µm, bead concentration is 5 mg/mL, and binding capacity is ≥ 30 µg streptavidin/mg of beads.
Synonyms:	Magnetic beads, particles, microparticles, paramagnetic nanoparticles, magnets, protein antibody, DNA, biotinylated avidin, neutravidin, isolation, purification
Conjugate:	Biotin

Target Details

Relevant Links:

- B000-18 SDS
- B000-18 Protocol

Application Details

Application Note: TrueBlot® Biotin magnetic beads can be used in immunoassays or molecular diagnostics when avidin or streptavidin is bound to proteins or oligonucleotides. Biotin magnetic beads can also be used in nucleic acid isolation, protein purification, and cell separations. Biotin magnetic particles are incubated with the avidin or streptavidin labeled solution and then separated by magnets. After the unbound particulates are washed from the particles, the bound avidin are eluted from the particles using the elution buffer. The particles are then magnetically separated from the eluted solution, which is removed manually.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IP:	User Optimized
WB:	User Optimized
Other:	DOE: 03/31/2027

Formulation

Physical State:	Suspension of Magnetic Beads
Concentration:	5.0 mg/mL antibody per cc agarose
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	The Biotin Magnetic Beads should be stored in the refrigerator (2-8 °C). The reagent must be allowed to reach room temperature (20-25 °C) before use and may be used until the expiration date. Do not freeze, dry, or centrifuge the beads as they may result in loss of binding activity and aggregation.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Kupcinskaite E et al. Disarming of type I-F CRISPR-Cas surveillance complex by anti-CRISPR proteins AcrIF6 and AcrIF9. *Sci Rep.* (2022)

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.

www.rockland.com
tech@rockland.com
+1 484.791.3823