



## **Dextran coated Iron Oxide Magnetic Nanoparticles** **([Catalog # IDX](#))**

### **Introduction**

Our water soluble dextran coated iron oxide magnetic nanoparticles (Catalog # IDX) is coated with dextran (MW 10,000). IDX contains hydroxyl functional group on the surface of the nanoparticles. The iron oxide nanoparticles in IDX have diameters at 5 or 10 nm. IDX has a zeta potential ranging from -10mV to 0mV and a hydrodynamic size of about 25 nm.

Since dextran is a natural polysaccharide that is used as an antithrombotic agent, IDX has excellent compatibility and suitability for *in vivo* studies. The colloidal stability of IDX is exceptionally high. It is stable in most buffer solutions (borate, Tris-HCl, PBS, MES, TAE, and TBE) and in the pH range of 3-14. It is also stable in culture media with or without FBS.

### **Storage**

The IDX can be stored at room temperature for 12 months.

### **Related Ocean NanoTech Products**

Visit our web site for additional information related to this product including the following items:

Supermag Separator <sup>™</sup>

ICK conjugation kit

SHP, SHA, SMG, SEI, SHS,

IPG, IAG, IAB, ILT, ILA, ILP, IRB

### **WARRANTIES AND DISCLAIMER**

The Ocean Nano Tech IDX products ("Product") is warranted to operate or perform in conformance with published Product specifications at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation") and to be free from defects in material and workmanship. Unless otherwise expressly authorized in writing, Products **are supplied for research use only**. No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the original purchaser of the Product ("Buyer").

**No other warranties, express or implied, are granted, including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non infringement. Buyer's exclusive remedy for non-conforming Products during the**

**warranty period is limited to replacement of or refund for the non-conforming Product(s).**

There is no obligation to replace Products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by Buyer, (iii) use of the Products in a manner for which they were not designed, or (iv) improper storage and handling of the Products.

Current versions of product instructions are available at [www.oceannanotech.com](http://www.oceannanotech.com). For a faxed copy, call 479-431-4130 or 479-751-5500.

© 2009 Ocean Nano Tech, LLC. All rights reserved. Unless otherwise indicated, all trademarks are property of Ocean Nano Tech, LLC. Printed in the USA.