Polysciences, Inc.
Chemistry beyond the ordinary

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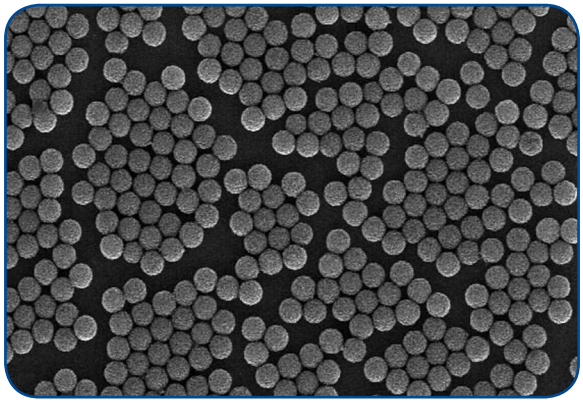
ProMag®

Highly Uniform Polymer-based Magnetic Spheres

ProMag® are suitable for use across a range of research and diagnostic applications: laboratory scale to high throughput.



ProMag™ Magnetic Spheres

BENEFITS

Superparamagnetic particles have been utilized extensively in diagnostic and other research applications for the capture of biomolecules and cells. They confer a number of benefits, including ease of separation and suitability for automation.

When coated with recognition molecules, magnetic microspheres are useful for the capture and separation of target. Unwanted sample constituents may be washed away following a simple magnetic separation step. Highly efficient magnetic separations eliminate potential interfering molecules, allowing sensitive detection of target.

ProMag® superparamagnetic microspheres offer rapid separations and are easily redispersed in buffer upon removal of the magnet.

CHARACTERISTICS

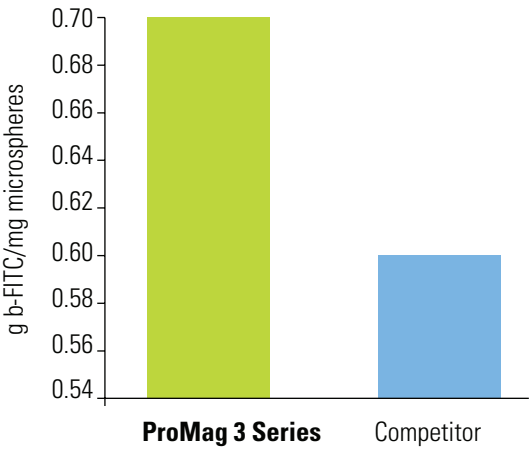
ProMag® are 1µm and 3µm polymer-based magnetic spheres that support diagnostic applications requiring highly uniform, high-binding beads and fast separation times. ProMag® also have a proprietary surface to reduce nonspecific binding in protein-based systems, and they offer superior handling without the use of surfactant.

ProMag® microspheres are offered in both 1µm and 3µm diameters. These high-binding beads are suitable for use across a range of research and diagnostic applications, whether you're working at laboratory scale or have the more stringent requirements of high throughput applications. For our OEM customers, ProMag will offer superior performance throughout the assay development process, and in your customers' hands.

HIGH BINDING CAPACITY

ProMag® streptavidin exhibit high specific binding for immobilization or capture of biotinylated molecules.

Binding Capacity



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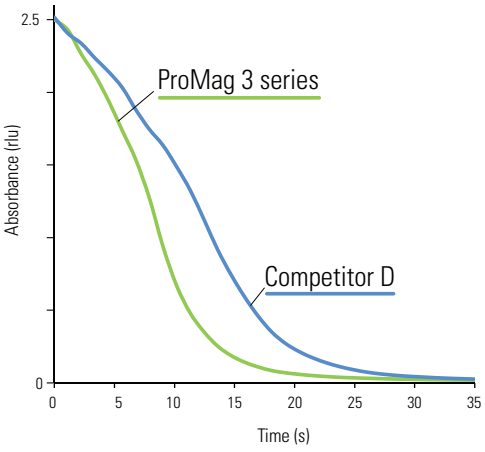
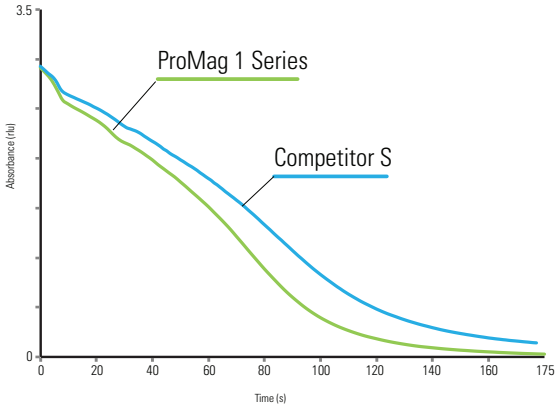
RAPID SEPARATION

ProMag® microspheres offer rapid separation times, conferring real time savings, especially for automated assays.

Magnetic Separation Rates

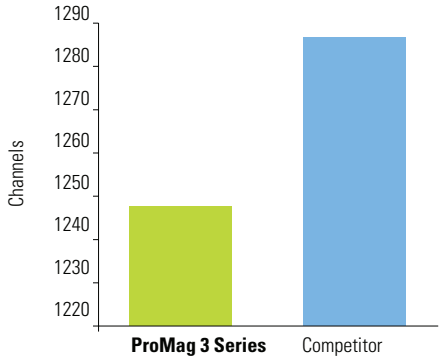




LOW NONSPECIFIC BINDING

In comparison tests conducted on a LSRII flow cytometer, using IgG as a prototypic protein, ProMag microspheres exhibited very low nonspecific binding.

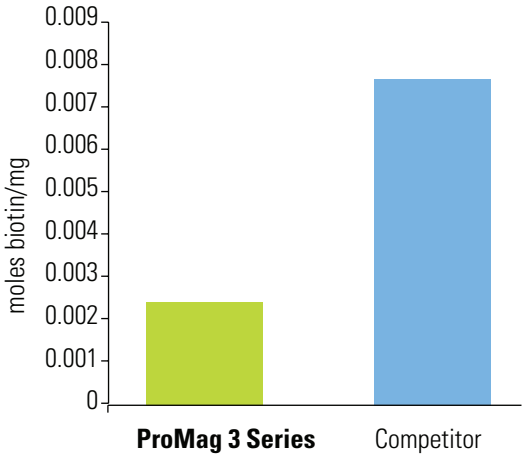
Nonspecific Binding Levels



LOW FREE STREPTAVIDIN LEVELS

Suspensions of streptavidin-coated ProMag® contain only trace free streptavidin, minimizing competition with the beads for target.

Free Streptavidin Amounts



ProMag®

Cat. #	Description
PMC1N	ProMag™ 1 Series • COOH Surfactant-Free
PMS1N	ProMag™ 1 Series • Streptavidin
PMB3N	ProMag™ 3 Series • Bind-IT™
PMC3N	ProMag™ 3 Series • COOH Surfactant-Free
PMS3N	ProMag™ 3 Series • Streptavidin
PMG3N	ProMag™ 3 Series • Protein G

Order online anytime at **polysciences.com**

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