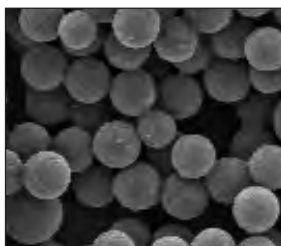
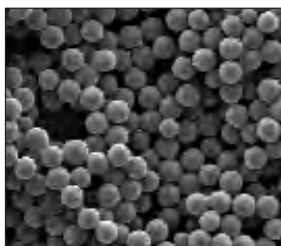


ProMag® HP High Performance Magnetic Microspheres

DESCRIPTION

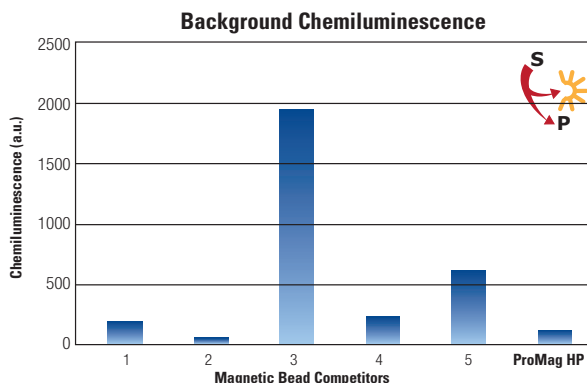
Magnetic particle-based diagnostic assays demand the highest performance in terms of physical handling, ligand binding characteristics, and signal-to-noise ratios. Bead composition directly impacts settling and magnetic separation profiles, which have implications for assay parameters such as incubation times for binding and elution steps, buffer changes, etc. Most importantly, the composition impacts specific / nonspecific binding characteristics, and background signal arising from the particle itself. These factors have a direct impact on the sensitivity and dynamic range of the assay.

Polysciences is pleased to offer **ProMag® HP (High Performance)**, our new generation of magnetic particles that has been meticulously engineered for use in assay development. ProMag® HP bring together the superior handling and fast separation rates of ProMag® with a highly optimized composition to ensure the lowest autosignal, particularly with respect to chemiluminescence and exposed iron.



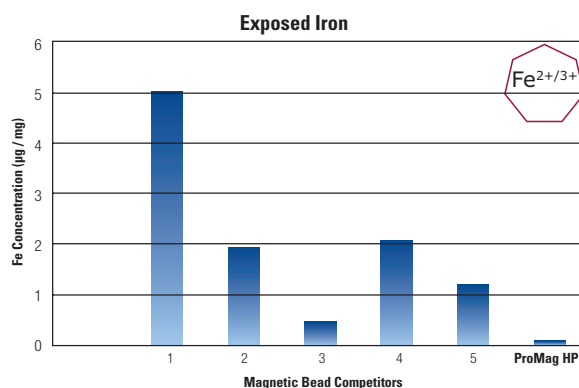
Chemiluminescence

ProMag® HP have exceptionally low background chemiluminescence compared to several competing products, as demonstrated using an H₂O₂ chemiluminescence assay.



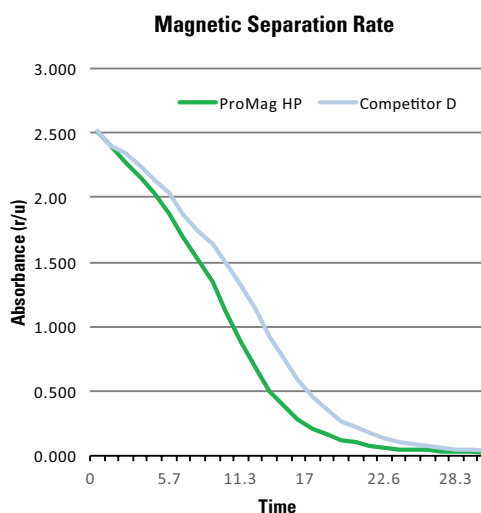
Iron Sequestration

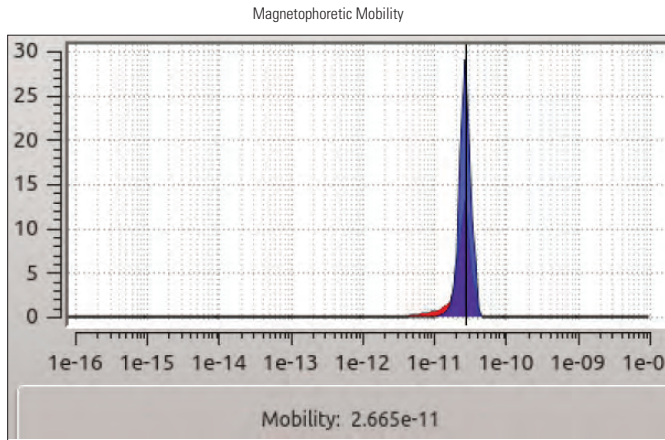
Metal cations are a source of interference in chemiluminescence assays. ProMag® HP have highly sequestered iron compared to several competing products, as demonstrated through a colorimetric assay for iron.



Magnetic Response

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





CHARACTERISTICS

25509 - ProMag® HP COOH

- Mean Diameter: 3µm
- % Solids: 2.5% (COOH), Surfactant-free
- Buffers: DI Water+0.05% NaN₃

25508- ProMag® HP Streptavidin

- Mean Diameter: 3µm
- % Solids: 1% (Streptavidin)
- Buffers: 100mM Borate + 0.1% Casein
0.05% Tween® + 10 mM EDTA + 0.09% NaN₃

Binding capacity is determined using a biotin-FITC assay, and Lot specific results are reported on the Certificate of Analysis.

STORAGE AND STABILITY

Store at 2-8°C. Freezing of particles may result in irreversible aggregation and loss of binding activity. For the streptavidin version an expiration date that is 12 months from the date of shipment is assigned; stability testing continues through 36 months from date of manufacture.

SAFETY

All particle suspensions contain sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azides. Upon disposal of material, flush with a large volume of water to prevent azide accumulation. Please consult the Safety Data Sheets for more information.

This product is for research use only and is not intended for use in humans or for in vitro diagnostic use.

ORDERING INFORMATION

Cat. Code	Description	Size
25509	ProMag® HP 3 Series • COOH	5mL or 25mL
25508	ProMag® HP 3 Series • Streptavidin	1mL, 2mL, 5mL, 10mL

TO ORDER

- In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
- In The U.S. Fax: 1(800) 343-3291 • (215) 343-0214
- In Germany Call: +(49) 06201-845200
- In Germany Fax: +(49) 06201-8452020
- In Asia Call: (886) 2 8712 0600
- In Asia Fax: (886) 2 8712 2677

Order online anytime at www.polysciences.com

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