

## **Chemiluminescence Assays**



The high sensitivities, broad dynamic ranges, simple instrumentation and rapid results that characterize chemiluminescence assays make them well-suited to quantitative measurement of low analyte concentration in immuno- and molecular diagnostic applications. Whether developing assays for fully automated or laboratory-built analyzers, there are many design elements to consider, including assay format, sensitivity, luminescence system (emitter), and solid phase.

Chemiluminescence assays have featured a variety of magnetic particles as the solid phase to effectively capture target, enhance sensitivity, and support automation. Bangs' comprehensive line of magnetic particles allows us to address the unique requirements of a multitude of assay systems, with options for particle diameter, surface functionality, morphology, magnetic separation profile, and other characteristics. To facilitate particle selection screening and optimization, we have assembled Magnetic Sampler Packs featuring our most popular carboxyl (COOH) and streptavidin (SA) particles, including our newest addition, Magnety™. See datasheets for additional product details.

	MAGNETIC PARTICLES FOR ASSAYS					
Catalog Number	Product Description	Nominal Diameter	Morphology	Composition	Functionality	Datasheet
PMC3HP, PMS3HP	ProMag <sup>®</sup> HP	3.0µm	spherical	polymer magnetic, encapsulated	COOH & SA	PDS 743
PMC1N, PMS1N	ProMag <sup>®</sup> 1 series	1.0µm	spherical	polymer magnetic	COOH & SA	PDS 715
PMC3N, PMS3N	ProMag <sup>®</sup> 3 series	3.0µm	spherical	polymer magnetic	COOH & SA	PDS 715
MFY0001	Magnefy™	1.0µm	spheroid	polymer magnetic, encapsulated	СООН	PDS 756
BP618, BP628	BioMag® Plus	1.5µm	irregular cluster	silanized iron oxide	COOH & SA	PDS 618,621
21940	Magnetic Streptavidin Sampler Pack	PMS3HP, Prof	Vag HP 3µm SA - 1	mL (1% solids )10mg/mL ImL (1% solids)10mg/mL .5% solids) 5mg / mL	SA	PDS 749
21950	Magnetic COOH Sampler Pack	MFY0001, Magnefy - 5mL (5% solids) 50mg/mL PMC1N, ProMag Series 1 - 5mL (2.5% solids) 25mg/mL PMC3HP, ProMag HP 3µm - 5mL (2.5% solids) 25mg/mL BP618, BioMagPlus - 5mL (2% solids) 20mg / mL			PDS 749	



## References

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- Fu Z, Yan F, Liu H, Lin J, Ju H. (2008) A channel-resolved approach coupled with magnet-captured technique for multianalyte chemiluminescent immunoassay. Biosens Bioelectron; 23:1422-1428.
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## **MAGNETIC PARTICLES FOR CHEMILUMINESENCE ASSAYS**

Cat. #	Product Description		
РМСЗНР	ProMag <sup>®</sup> HP 3 Series • COOH		
PMS3HP	ProMag® HP 3 Series • Streptavidin		
PMC1N	ProMag <sup>®</sup> 1 Series • COOH Surfactant-Free		
PMS1N	ProMag <sup>®</sup> 1 Series • Streptavidin		
PMC3N	ProMag <sup>®</sup> 3 Series • COOH Surfactant-Free		
PMS3N	ProMag® 3 Series • Streptavidin		
MFY0001	Magnefy™ • COOH		
21940	Magnetic Streptavidin Sampler Pack		
21950	Magnetic COOH Sampler Pack		



**Bangs Laboratories** manufactures magnetic, polymeric and silica microsphere products setting the standards for diagnostic, research, and flow cytometry applications. No matter the project, we have a product that serves or we'll work to custom-design a solution to fit. And that's not the half of it.

We also stand behind our products. Regardless of the size of your question or the size of your company, we offer tech support, absolutely free.

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