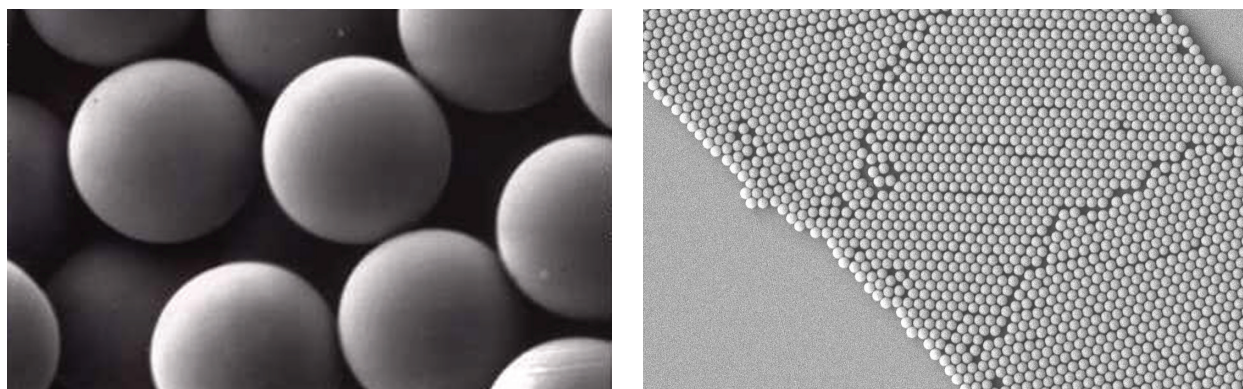


Polystyrene Microspheres

For research and diagnostic use with excellent quality, uniformity, and reproducibility.



We supply a full range of uniformly sized polystyrene microspheres that support a variety of applications in the life sciences. Available in diameters ranging from 20nm to 200µm, products exhibit excellent size uniformity. With the goal of providing our customers with the highest quality microspheres in the world, we are committed to reproducible, scalable manufacturing, thorough quality assurance, and superior customer care.

Microsphere Features

- Predominantly polystyrene-based, other base polymers are also offered.
- Available cross-linked for increased solvent, heat, and pressure resistance.
- Plain polystyrene for protein adsorption, or surface modified (COOH or NH₂) for covalent ligand attachment.
- Available with impregnated visible or fluorescent dyes. See our online color palette and fluorescence spectra.

Applications

Polystyrene microspheres present a flexible platform for applications in diagnostics and bioseparations. They may be coated with recognition molecules, such as antibodies, antigens, peptides, or nucleic acid probes, and can be loaded with hydrophobic dyes and other compounds. Unmodified polystyrene spheres also find extensive use as standards for instrument set-up and calibration.

Plain polystyrene microspheres are ideal for protein adsorption, and have been utilized in a range of diagnostic tests and assays. Reference our *TechNote 204, Adsorption to Microspheres*, for information on protein adsorption guidelines, the use of blockers, and further references.

Surface modified microspheres are available with carboxyl or primary amine groups for covalent ligand attachment. Reference our *TechNote 205, Covalent Coupling*, which provides a basic foundation for successful attachment of a variety of ligands through coupling protocols, buffer recipes, blockers, and references.

Affinity binding systems offer simple and efficient ligand attachment. Coatings of Fc binding proteins are able to orient antibodies for optimal activity, and streptavidin offers extremely stable attachment of biotinylated molecules, such as proteins, peptides, and oligonucleotides. See *TechNote 101, Affinity Ligand Microspheres*, for basic attachment protocols.

POLYSTYRENE MICROSPHERES
Polystyrene
Cat. # Product Description

PS02001	0.025µm
PS02002	0.050µm
PS02003	0.075µm
PS02004	0.100µm
PS02005	0.125µm
PS02006	0.150µm
PS02007	0.175µm
PS02008	0.200µm
PS02009	0.300µm
PS02010	0.400µm
PS03001	0.500µm
PS03002	0.600µm
PS03003	0.700µm
PS03004	0.800µm
PS03005	0.900µm
PS04001	1.00µm
PS05001	2.00µm
PS05002	3.00µm
PS05003	4.00µm
PS06001	5.00µm
PS06002	5.50µm
PS06003	6.00µm
PS06004	7.00µm
PS06005	7.50µm
PS07001	10.0µm
PS07002	15.00µm
PS07003	20.0µm
PS08001	≥25.0µm

Carboxyl Polystyrene
Cat. # Product Description

PC02001	0.025µm
PC02002	0.050µm
PC02003	0.070µm
PC02004	0.100µm
PC02005	0.125µm
PC02006	0.150µm
PC02007	0.175µm
PC02008	0.200µm
PC02009	0.300µm
PC02010	0.350µm

POLYSTYRENE MICROSPHERES Cont.
Carboxyl Polystyrene cont.
Cat. # Product Description

PC02011	0.400µm
PC03001	0.500µm
PC03002	0.600µm
PC03003	0.800µm
PC03004	0.900µm
PC04001	1.00µm
PC05001	2.00µm
PC05002	2.50µm
PC05003	3.0µm
PC05004	4.0µm
PC05005	4.50µm
PC06001	5.00µm
PC06002	5.50µm
PC06003	6.0µm
PC06004	7.00µm
PC07001	10.0µm
PC07002	15.0µm
PC07003	20.0µm
PC08001	≥25.0µm


Amine Polystyrene
Cat. # Product Description

PA02001	0.200µm
PA03001	0.500µm
PA03002	0.750µm
PA04001	1.00µm




Bangs Laboratories manufactures magnetic, polymeric and silica microsphere products setting the standards for diagnostic, research, and flow cytometry applications.


Regardless of the size of your question or the size of your company, we offer tech support, absolutely free.

Sound interesting? 

Visit: www.bangslabs.com

 @particledoc

 info@bangslabs.com

 800.387.0672