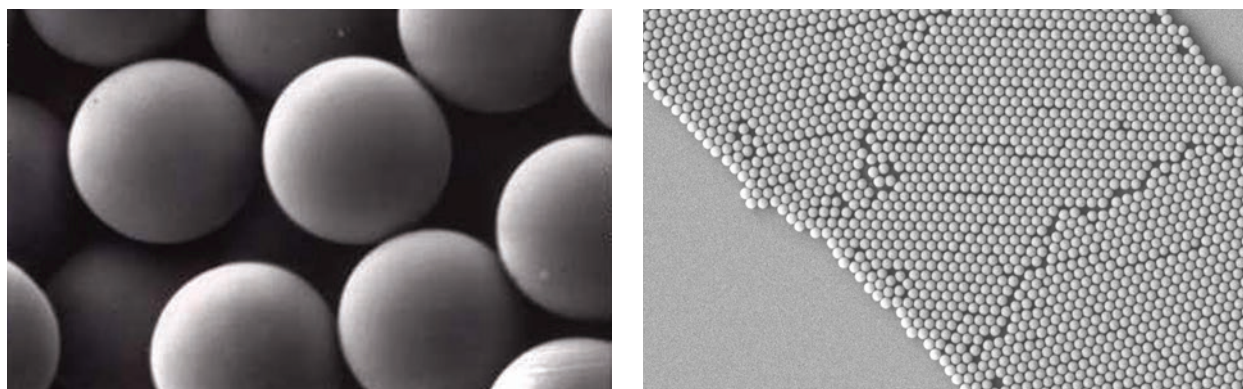


Polystyrene Microspheres

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? 

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