

Polymer Microspheres

For Research and Diagnostic Use



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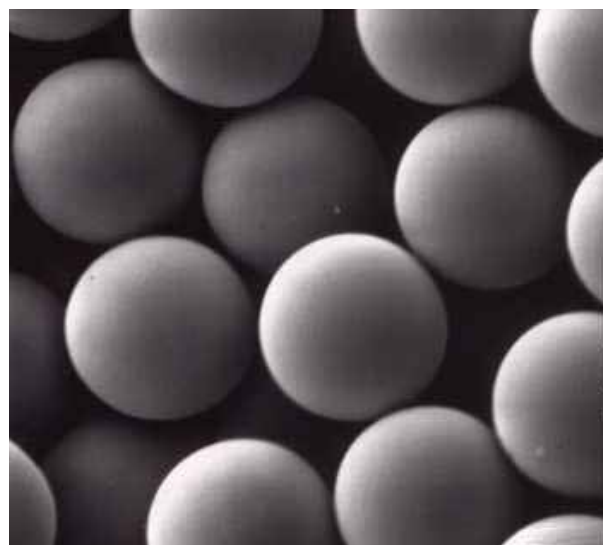
Bangs' Laboratories Polymer Microspheres are offered with excellent quality, uniformity, and reproducibility.

BLI's Polymer Microspheres

BLI supplies a full range of uniformly sized polymeric 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 improved solvent, heat, and pressure resistance.



Scanning Electron Microscopy image of polystyrene microspheres

- Plain polymer 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

Polymer 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 polymer spheres also find extensive use as standards for instrument set-up and calibration.

Polystyrene microspheres are ideal for protein adsorption, and have been utilized in a range of diagnostic tests and assays. Reference our TechNote 204 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, 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 for basic attachment protocols.

POLYMER MICROSPHERES

Polystyrene

Cat. # Product Description

PS02N	≤ 0.49µm
PS03N	0.50-0.99µm
PS04N	1.00-1.99µm
PS05N	2.00-4.99µm
PS06N	5.00-8.99µm
PS07N	9.00-24.99µm
PS08N	≥ 25.00µm

Carboxyl Polymer

Cat. # Product Description

PC02N	≤ 0.49µm
PC03N	0.50-0.99µm
PC04N	1.00-1.99µm
PC05N	2.00-4.99µm
PC06N	5.00-9.99µm
PC07N	≥ 10.00µm

Amine Polymer

Cat. # Product Description

PA02N	≤ 0.49µm
PA03N	0.50-0.99µm

Dyed Polymer

Cat. # Product Description

DS02*	≤ 0.49µm
DS03*	0.50-0.99µm
DS04*	1.00-1.99µm
DS05*	2.00-4.99µm
DS06*	5.00-9.99µm
DS07*	≥ 10.00µm

Dyed Carboxyl Polymer

Cat. # Product Description

DC02*	≤ 0.49µm
DC03*	0.50-0.99µm
DC04*	1.00-1.99µm
DC05*	2.00-4.99µm
DC06*	5.00-9.99µm
DC07*	≥ 10.00µm

POLYMER MICROSPHERES continued

Fluorescent Polymer

Cat. # Product Description

FS02F	≤ 0.49µm
FS03F	0.50-0.99µm
FS04F	1.00-1.99µm
FS05F	2.00-4.99µm
FS06F	5.00-9.99µm
FS07F	10.00-24.99µm
FS08F	≥ 25.00µm

Fluorescent Carboxyl Polymer

Cat. # Product Description

FC02F	≤ 0.49µm
FC03F	0.50-0.99µm
FC04F	1.00-1.99µm
FC05F	2.00-4.99µm
FC06F	5.00-9.99µm
FC07F	≥ 10.00µm



Bangs Laboratories supplies a large variety of uniform 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.

Sound interesting? Give us a call.



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