

# Dyed Microspheres

## Microspheres in a Rainbow of Colors



BEADS • ABOVE THE REST



Providing a wide range of dyed microspheres for use in lateral flow tests and latex agglutination tests. We will “dye” for you!

Visibly dyed microspheres are frequently used in lateral flow tests and “latex” agglutination tests. They are available in a range of intense colors that are suitable for visual or microscopic identification of positive test results.

We offer polystyrene-based microspheres that are impregnated with vibrant dyes for optimal visualization. Non-functionalized and functionalized versions are available to support adsorption and covalent binding strategies.

### Dyeing Method

Microspheres are internally labeled with oil-soluble dyes. Our dyeing technique involves the swelling of polymeric microspheres in an organic solvent/dye solution. The water-insoluble dye diffuses into the polymer matrix and is entrapped when the solvent is removed from the microspheres. The resulting dyed microspheres remain stable in aqueous systems.

Internal labeling affords many benefits, including:

- availability of surface groups for coupling reactions;
- excellent stability;
- large selection of dyes;
- wide range of sizes available, ~50nm-10µm, with larger diameters available on a custom basis; and
- high dye loading.

### Custom Services

Our custom capabilities include color matching, custom color formulation, or use of the client’s hydrophobic dye.

Dyed spheres may also be coated (e.g. streptavidin) on a custom basis.



*This color palette is provided to serve as a general reference only. Actual products may vary in hue due to differences in microsphere composition and size, as well as the concentration of the suspension.*

## DYED POLYSTYRENE & OTHER POLYMERS

### Cat. # Diameter

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
DS00*	Special Microspheres & Prices

\* The final character of the catalog code denotes color: B=Blue, R=Red, O=Orange, K=Black, V=Purple, G=Green, F=Fluorescent, N=None.

## DYED POLYSTYRENE CARBOXYL

### Cat. # Diameter

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
DC00*	Special Microspheres & Prices

\* The final character of the catalog code denotes color: B=Blue, R=Red, O=Orange, K=Black, V=Purple, G=Green, F=Fluorescent, N=None.



**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.**

# 317.570.7020

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