

Dyed Microspheres

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

Such standards are used to determine the correct percentage of fluorescence signal to be subtracted from the other channels. To that end, Bangs offers a broad portfolio of standards for color compensation. Our offerings include beads that may be labeled with the antibody

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 base bead 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.

We welcome inquiries regarding these and other types of projects. Please contact us to learn how we may be of assistance in formulating solutions to meet your specific requirements.

DYED POLYSTYRENE & OTHER POLYMERS

Cat. #	Description
DSCR001	0.050µm Crimson Red
DSCB002	0.200µm Cabo Blue
DSCR002	0.200µm Crimson Red
DSSG002	0.200µm Shamrock Green
DSCR003	0.300µm Crimson Red
DSCR004	0.400µm Crimson Red
DSCB005	0.800µm Cabo Blue
DSCR005	0.800µm Crimson Red
DSSG005	0.800µm Shamrock Green
DSBK005	0.800µm Basic Black
DSCR006	5.0µm Crimson Red



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 CARBOXYL

Cat. #	Description
DCCB001	0.20µm Cabo Blue
DCCR001	0.20µm Crimson Red
DCSG001	0.20µm Shamrock Green
DCBK001	0.20µm Basic Black
DCCB002	0.50µm Cabo Blue
DCCR002	0.50µm Crimson Red
DCCB004	1.00µm Cabo Blue
DCCR004	1.00µm Crimson Red
DCTA004	1.00µm Tangerine Orange
DCSG004	1.00µm Shamrock Green
DCCB005	5.00µm Cabo Blue

DYED PROTEIN-COATED POLYSTYRENE

Cat. #	Description
CDCR001	0.20µm Crimson Red Streptavidin
CDCB001	0.20µm Cabo Blue Streptavidin

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