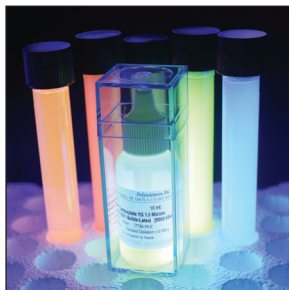


Functionalized Polybead[®] and Fluoresbrite[®] Microspheres

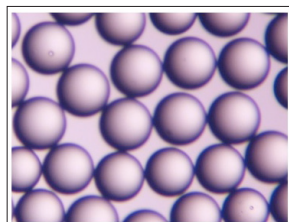
DESCRIPTION

Polybead[®] and Fluoresbrite[®] functionalized polystyrene microspheres are available with nominal diameters ranging from 50nm to 20µm. Diameters ≥4.5µm are crosslinked with divinylbenzene (DVB), and our synthesis methods result in monodisperse particle size distributions. In addition to the noted functional group, all functionalized polystyrene microspheres also have residual surface sulfate ester groups (negatively-charged) leftover from synthesis with sulfate-based surfactants and initiators.



Fluoresbrite[®] Microspheres

Most of our Polybead[®] and Fluoresbrite[®] functionalized microspheres are packaged in an economical 2.5% solids (w / v) aqueous suspension with minimal surfactant in the final preparation. Carboxylate- and amine-modified beads are ideally suited for the covalent attachment of proteins, antibodies, peptides, oligonucleotides, and other amine-terminated biomolecules via EDAC- or glutaraldehyde-mediated chemistries, respectively (see *Related Technical Data Sheets* listing).



Polybead[®] Microspheres

We also offer a number of sampler kits featuring multiple Polybead[®] or Fluoresbrite[®] functionalized microspheres for those investigators who are new to microspheres or who simply prefer the convenience of a kit.

CHARACTERISTICS

Functional Group: Carboxylate; Amine; Carboxy-Sulfate; Hydroxylate; Sulfate
Mean Diameter: 50nm – 20µm; see catalog or website for diameters available for each functional group
Particle Concentration: 2.5% solids (w/v), ~25mg/ml
Coefficient of Variation: 3 – 25%; see catalog or website for specification by catalog number

RELATED TECHNICAL DATA SHEETS

1. TDS 238 - *Polystyrene Microspheres: Frequently Asked Questions*
2. TDS 238C - *Covalent Coupling of Proteins to Carboxylated Polystyrene Microparticles by the "Carbodiimide" Method*
3. TDS 238D - *Covalent Coupling of Proteins to Amino and Blue Dyed Polystyrene Microparticles by the "Glutaraldehyde" Method*

4. TDS 238G - *Protocol for Glutaraldehyde Kit (for use with Amino and Blue Dyed Beads)*
5. TDS 431 - *Fluoresbrite[®] Microparticles*
6. TDS 644 - *PolyLink Protein Coupling Kit for COOH Microspheres*
7. TDS 808 - *Polybead[®] Dyed Microspheres*

STORAGE AND STABILITY

Store at 4°C. Freezing may result in irreversible aggregation and loss of binding activity.

These products are for research use only and are not intended for use in humans or for *in vitro* diagnostic use.

ORDERING INFORMATION

Cat. #	Description	Size
16586	Polybead [®] Amino, 0.10µm	5ml
15699	Polybead [®] Amino, 0.20µm	5ml
07763	Polybead [®] Amino, 0.50µm	5ml
17144	Polybead [®] Amino, 0.75µm	5ml
17010	Polybead [®] Amino, 1.00µm	5ml
17145	Polybead [®] Amino, 3.00µm	5ml
19118	Polybead [®] Amino, 6.00µm	2ml
19820	Polybead [®] Amino Sampler Kit (0.5µm, 0.75µm, 1.0µm, 3.0µm)	1 kit
19406	Polybead [®] Carboxy-Sulfate, 1.0µm	15ml
15913	Polybead [®] Carboxylate, 0.05µm	10ml
16688	Polybead [®] Carboxylate, 0.10µm	15ml
08216	Polybead [®] Carboxylate, 0.20µm	15ml
21753	Polybead [®] Carboxylate, 0.35µm	15ml
09836	Polybead [®] Carboxylate, 0.50µm	15ml
07759	Polybead [®] Carboxylate, 0.75µm	15ml
08226	Polybead [®] Carboxylate, 1.00µm	15ml
18327	Polybead [®] Carboxylate, 2.00µm	10ml
09850	Polybead [®] Carboxylate, 3.00µm	5ml
17140	Polybead [®] Carboxylate, 4.50µm	5ml
17141	Polybead [®] Carboxylate, 6.00µm	5ml
18133	Polybead [®] Carboxylate, 10.0µm	2ml
24811	Polybead [®] Carboxylate, 20.0µm	2ml
19819	Polybead [®] Carboxylate Sampler Kit I (0.5µm, 0.75µm, 1.0µm, 2.0µm, 3.0µm)	1 kit
21757	Polybead [®] Carboxylate Sampler Kit II (0.1µm, 0.2µm, 0.5µm, 1.0µm)	1 kit

ORDERING INFORMATION, cont.

Cat. #	Description	Size
15717	Polybead® Hydroxylate, 0.20µm	15ml
07762	Polybead® Hydroxylate, 0.50µm	15ml
19128	Polybead® Hydroxylate, 0.75µm	15ml
17142	Polybead® Hydroxylate, 1.00µm	15ml
19129	Polybead® Hydroxylate, 2.00µm	10ml
17143	Polybead® Hydroxylate, 3.00µm	5ml
19402	Polybead® Sulfate, 0.20µm	15ml
19403	Polybead® Sulfate, 0.50µm	15ml
19404	Polybead® Sulfate, 1.00µm	15ml
19405	Polybead® Sulfate, 2.00µm	10ml
19773	Fluoresbrite® BB Carboxylate, 0.05µm	10ml
19774	Fluoresbrite® BB Carboxylate, 0.10µm	10ml
18339	Fluoresbrite® BB Carboxylate, 0.50µm	10ml
17458	Fluoresbrite® BB Carboxylate, 1.00µm	10ml
17686	Fluoresbrite® BB Carboxylate, 1.75µm	5ml
18340	Fluoresbrite® BB Carboxylate, 4.50µm	5ml
19102	Fluoresbrite® BB Carboxylate, 6.00µm	2ml
19103	Fluoresbrite® BB Carboxylate, 10.0µm	2ml
16661	Fluoresbrite® YG Carboxylate, 0.05µm	10ml
16662	Fluoresbrite® YG Carboxylate, 0.10µm	10ml
09834	Fluoresbrite® YG Carboxylate, 0.20µm	10ml
24051	Fluoresbrite® YG Carboxylate, 0.30µm	10ml
24052	Fluoresbrite® YG Carboxylate, 0.35µm	10ml
24053	Fluoresbrite® YG Carboxylate, 0.40µm	10ml
15700	Fluoresbrite® YG Carboxylate, 0.50µm	10ml
07766	Fluoresbrite® YG Carboxylate, 0.75µm	10ml
15702	Fluoresbrite® YG Carboxylate, 1.00µm	10ml
09719	Fluoresbrite® YG Carboxylate, 1.50µm	10ml
17687	Fluoresbrite® YG Carboxylate, 1.75µm	5ml
09847	Fluoresbrite® YG Carboxylate, 2.00µm	5ml
17147	Fluoresbrite® YG Carboxylate, 3.00µm	5ml
16592	Fluoresbrite® YG Carboxylate, 4.50µm	5ml
18141	Fluoresbrite® YG Carboxylate, 6.00µm	2ml
18142	Fluoresbrite® YG Carboxylate, 10.0µm	2ml
21636	Fluoresbrite® YG Carboxylate Size Range Kit I (0.1µm, 0.2µm, 0.5µm, 0.75µm, 1.0µm)	1 kit
21637	Fluoresbrite® YG Carboxylate Size Range Kit II (1.75µm, 2.0µm, 3.0µm, 4.5µm, 6.0µm)	1 kit
19775	Fluoresbrite® YO Carboxylate, 0.05µm	10ml
18791	Fluoresbrite® YO Carboxylate, 0.10µm	10ml
19391	Fluoresbrite® YO Carboxylate, 0.20µm	10ml
18720	Fluoresbrite® YO Carboxylate, 0.50µm	10ml
18449	Fluoresbrite® YO Carboxylate, 1.00µm	10ml
19392	Fluoresbrite® YO Carboxylate, 1.75µm	5ml
19393	Fluoresbrite® YO Carboxylate, 3.00µm	5ml
19394	Fluoresbrite® YO Carboxylate, 4.50µm	5ml
19395	Fluoresbrite® YO Carboxylate, 6.00µm	2ml

ORDERING INFORMATION, cont.

Cat. #	Description	Size
25488	Fluoresbrite® Europium (Eu) Carboxylate, 0.10µm	1ml, 5ml, 10ml
25489	Fluoresbrite® Europium (Eu) Carboxylate, 0.20µm	1ml, 5ml, 10ml
25490	Fluoresbrite® Europium (Eu) Carboxylate, 0.30µm	1ml, 5ml, 10ml
21118	Fluoresbrite® (273, 354) Carboxylate, 0.05µm	1ml
21116	Fluoresbrite® (641, 662) Carboxylate, 0.05µm	1ml
21117	Fluoresbrite® (763, 820) Carboxylate, 0.05µm	1ml
17685	Fluoresbrite® (273, 354) Carboxylate, 1.75µm	1ml, 5ml
17797	Fluoresbrite® (641, 662) Carboxylate, 1.75µm	1ml
19839	Fluoresbrite® Carboxylate Color Range Kit II, 0.5µm (BB,YG, YO, Fluor. 273, Fluor. 641, Fluor. 763)	1 kit
11975	Polybead® Carboxylate Blue Dyed, 0.30µm	15ml
19816	Polybead® Carboxylate Blue Dyed, 0.50µm	15ml
19120	Polybead® Carboxylate Blue Dyed, 1.00µm	15ml
19123	Polybead® Carboxylate Blue Dyed, 3.00µm	5ml
19126	Polybead® Carboxylate Blue Dyed, 6.00µm	5ml
13371	Polybead® Carboxylate Green Dyed, 0.20µm	15ml
13370	Polybead® Carboxylate Green Dyed, 1.00µm	15ml
13369	Polybead® Carboxylate Orange Dyed, 0.20µm	15ml
13368	Polybead® Carboxylate Orange Dyed, 1.00µm	15ml
24063	Polybead® Carboxylate Red Dyed, 0.30µm	15ml
19815	Polybead® Carboxylate Red Dyed, 0.50µm	15ml
19119	Polybead® Carboxylate Red Dyed, 1.00µm	15ml
19122	Polybead® Carboxylate Red Dyed, 3.00µm	5ml
19125	Polybead® Carboxylate Red Dyed, 6.00µm	5ml
19817	Polybead® Carboxylate Yellow Dyed, 0.50µm	15ml
19121	Polybead® Carboxylate Yellow Dyed, 1.00µm	15ml
19124	Polybead® Carboxylate Yellow Dyed, 3.00µm	5ml
19127	Polybead® Carboxylate Yellow Dyed, 6.00µm	5ml
18602	Polybead® Acrylate, 1.00µm	15ml

TO ORDER

In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
 In The U.S. Fax: 1(800) 343-3291 • (215) 343-0214
 In Germany Call: +(49) 06201-845200
 In Germany Fax: +(49) 06201-8452020
 In Asia Call: (886) 2 8712 0600
 In Asia Fax: (886) 2 8712 2677

Order online anytime at www.polysciences.com

Should any of our materials fail to perform to our specifications, we will be pleased to provide replacements or return the purchase price. We solicit your inquiries concerning all needs for life sciences work. The information given in this bulletin is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.