

TECHNICAL DATA SHEET 788

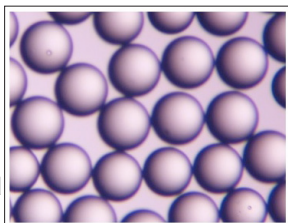
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Polybead® Microspheres

DESCRIPTION

Polybead® polystyrene microspheres are supplied in sizes with nominal diameters from 50nm to 90µm. Our experienced chemists control the synthesis to provide precise monodisperse particle size distributions. These particles contain a slight anionic charge from sulfate ester. Diameters 4.5µm and larger are crosslinked with divinylbenzene (DVB).

Most of our Polybead® microspheres are packaged in an economical 2.5% solids (w/v) aqueous suspension with minimal surfactant in the final preparation. Non-functionalized Polybead® microspheres are ideally suited for protein binding using passive adsorption techniques, and functionalized versions are available for covalent binding. (See Related Technical Data Sheets listing.)



Polybead® microspheres are also available in a dry form. Our freeze drying technique reduces the aggregation usually associated with dried beads. Dry material allows for the buffer of choice to be easily added.

For those who are new to Polybead® microspheres or simply prefer the convenience of a kit, we offer three sampler kits to get you started.

CHARACTERISTICS

Mean Diameter: 50nm - 90µm
Particle Concentration: 2.5% solids (w/v), ~25mg/ml; some diameters available dry.
Coefficient of Variation: 2–10% for most products; 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 238E - *Protocol for Adsorbing Proteins on Polystyrene Microparticles*
5. TDS 238G - *Protocol for Glutaraldehyde Kit (for use with Amino and Blue Dyed Beads)*
6. TDS 431 - *Fluoresbrite® Microparticles*
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 <small>nominal diameter / mean diameter range</small>	Size
08691-10	Polybead® Microspheres, 0.05µm / 0.036-0.064µm	10ml
00876-15	Polybead® Microspheres, 0.10µm / 0.079-0.121µm	15ml
07304-15	Polybead® Microspheres, 0.20µm / 0.180-0.220µm	15ml
07306-15	Polybead® Microspheres, 0.35µm / 0.315-0.385µm	15ml
07307-15	Polybead® Microspheres, 0.50µm / 0.450-0.550µm	15ml
07309-15	Polybead® Microspheres, 0.75µm / 0.675-0.825µm	15ml
07310-15	Polybead® Microspheres, 1.00µm / 0.90-1.10µm	15ml
17133-15	Polybead® Microspheres, 1.50µm / 1.35-1.65µm	15ml
19814-15	Polybead® Microspheres, 2.00µm / 1.80-2.20µm	15ml
17134-15	Polybead® Microspheres, 3.00µm / 3.00-3.30µm	15ml
17135-5	Polybead® Microspheres, 4.50µm / 4.05-4.95µm	5ml
07312-5	Polybead® Microspheres, 6.00µm / 5.40-6.60µm	5ml
17136-5	Polybead® Microspheres, 10.0µm / 9.0-11.0µm	5ml
18328-5	Polybead® Microspheres, 15.0µm / 13.5-16.5µm	5ml
18329-5	Polybead® Microspheres, 20.0µm / 18.0-22.0µm	5ml
07313-5	Polybead® Microspheres, 25.0µm / 22.5-27.5µm	5ml
07314-5	Polybead® Microspheres, 45.0µm / 40.5-49.5µm	5ml
24049-5	Polybead® Microspheres, 75.0µm / 67.5-82.5µm	5ml
07315-5	Polybead® Microspheres, 90.0µm / 81.0-99.0µm	5ml
19518-500	Polybead® Microspheres, Dry Form 1.00µm	500mg
19519-500	Polybead® Microspheres, Dry Form 1.50µm	500mg
19520-500	Polybead® Microspheres, Dry Form 3.00µm	500mg
19822-1	Polybead® Sampler Kit I (0.5µm, 0.75µm, 1.0µm, 2.0µm, 3.0µm)	1 kit
21756-1	Polybead® Sampler Kit II (0.1µm, 0.2µm, 0.5µm, 1.0µm)	1 kit
16905-1	Polybead® Sampler Kit III (0.05µm, 0.2µm, 0.5µm, 1.0µm, 45.0µm, 90.0µm)	1 kit

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