

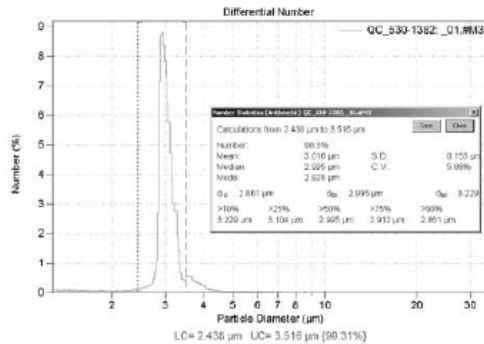
SPHERO™ Coated Particles

- Manufactured by either passive adsorption or covalent coupling depending upon the intended application
- Stable for several years under proper storage condition
- Available in a wide variety of formats: polystyrene particles, fluorescent particles and magnetic particles coated with antibodies, Avidin, Streptavidin and Biotin and other proteins

The SPHERO™ Coated Particles are prepared either by passive adsorption or covalent coupling depending upon the intended applications. For example, the 4.0-4.5 µm Goat anti-Mouse IgG, Goat anti-Rabbit IgG and Goat anti-Human IgG coated magnetic particles intended for cell separation are prepared by covalent coupling. Similarly, the avidin and biotin coated particles are also prepared by covalent coupling. On the other hand, the 0.7-0.9 µm Goat anti-Mouse IgG coated polystyrene particles are prepared using passive adsorption. However, they are stable for several years under proper storage condition.

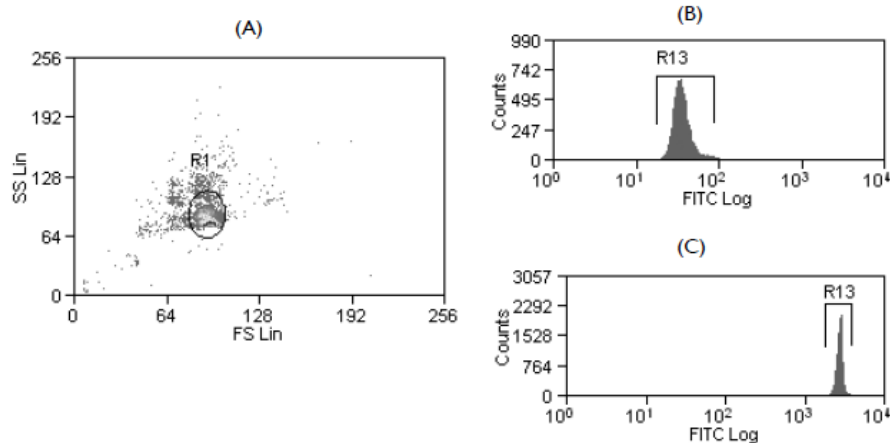
Spherotech offers a wide variety of polystyrene particles, fluorescent particles and magnetic particles coated with antibodies, Avidin, Streptavidin and Biotin and other proteins. For instance, Spherotech manufactures Protein A coated polystyrene and magnetic particles for binding to IgG from human, mouse and rabbit serum and Glutathione coated polystyrene particles for detecting the GST fusion proteins by flow cytometry. Likewise, Protease coated magnetic particles can be used for enzymatic digestion of antibodies or proteins.

Figure 68 Size distribution analysis of SPHERO™ Cat.No.SVP-30-5, 3.0 µm Streptavidin Particles from the Beckman Coulter Z3 Multisizer™



Please refer to Page 76 for more detailed technical information regarding coating procedures.

Figure 69 (A) FSC vs SSC Histogram of SVP-60-5 (B) Histograms of SVP-60-5 before exposure to biotin-FITC (C) Histograms of SVP-60-5 after exposure to biotin-FITC



SPHERO™ Anti-Digoxigenin Coated Particles

- Prepared by covalently coupling of monoclonal antibody to digoxigenin from mouse-mouse hybrid cells
- Used to purify and detect digoxigenin-labeled protein and nucleic acids

Particle Type and Surface	Size, μm	% w/v	Catalog No.	Unit
Anti-Digoxigenin	2.0-2.4	0.1	DIGP-20-2	2 mL
Anti-Digoxigenin	4.0-4.9	0.1	DIGP-40-2	2 mL

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