

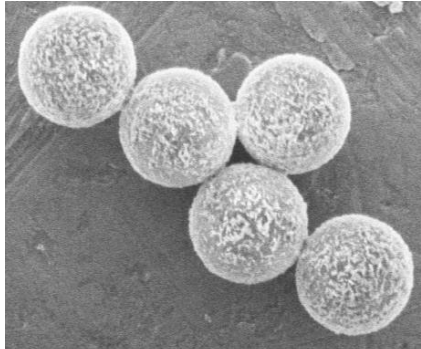
**SPHERO™ Coated Ferromagnetic Particles**

**SPHERO™ Streptavidin Coated Ferromagnetic Particles**

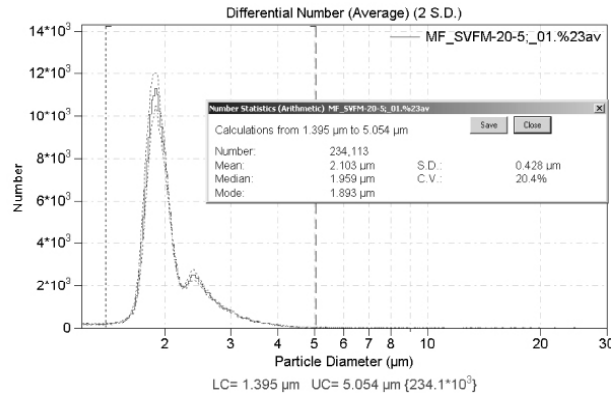
- See Page 68 and 72 for uses, benefits, and the mechanism of streptavidin coated particles
- Used for their ability to be easily manipulated in a magnetic field\*.

\*Anker, J. N., C. J. Behrend, et al. (2005). "Magnetically-modulated optical nanoprobe (MagMOONs) and systems." *Journal of Magnetism and Magnetic Materials* 293(1): 655-662

Particle Type and Surface	Size, $\mu\text{m}$	% w/v	Catalog No.	Unit
Streptavidin	2.0-2.9	1.0	SVFM-20-5	5 mL
Streptavidin	4.0-4.9	1.0	SVFM-40-5	5 mL
Streptavidin	8.0-8.9	1.0	SVFM-80-4	4 mL
Streptavidin	10.0-13.9	1.0	SVFM-100-4	4 mL



SEM of SVFM-100-4



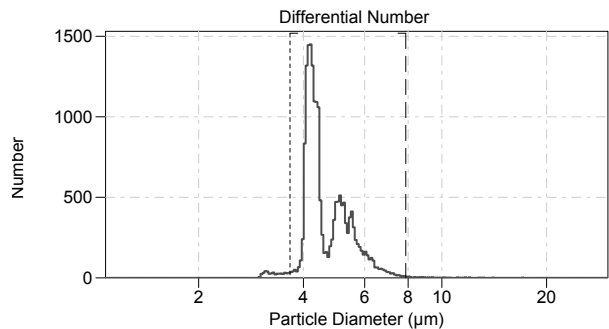
Size distribution analysis of SVFM-20-5

**SPHERO™ Goat anti-Mouse IgG Coated Ferromagnetic Particles**

- Provides a means to measure forces applied to a specimen through specific receptors proteins
- Aids in the development of magnetic systems designed to apply forces or force patterns
- Coated fluorescent ferromagnetic particles allows for force measurements using fluorescent microscopy
- Contains two orders of magnitude higher magnetic moments than paramagnetic particles and can be incubated with biological cells during phagocytosis assays\*.

\*Mitrelas, T., J. Palfreyman, et al. (2007). "Biological cell detection using ferromagnetic microbeads." *Journal of Magnetism and Magnetic Materials* 310(2, Part 3): 2862-2864.

Particle Type and Surface	Size, $\mu\text{m}$	% w/v	Catalog No.	Unit
Goat anti-Mouse IgG (Fc)	2.0-2.9	1.0	FMFc-25-5	5 mL
Goat anti-Mouse IgG (Fc)	4.0-4.9	1.0	FMFc-40-5	5 mL
Goat anti-Mouse IgG (H&L), Cross adsorbed	4.0-4.9	1.0	FMXA-40-5	5 mL
Goat anti-Mouse IgG (Fc), Fluorescent, Pink	2.0-2.4	0.1	FMMFc-2058-5	5 mL



Size distribution analysis of FMFc-40-5