

Flow Cytometry Size and Count Standards

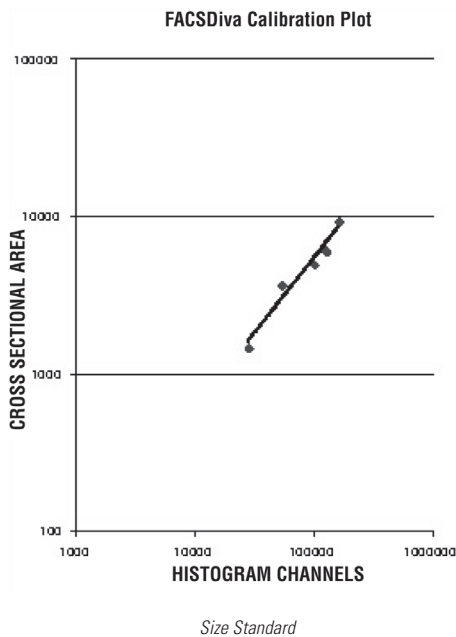
Optimization with Size and Count Standards ensures accurate and reproducible results to validate your procedures.

SIZE STANDARDS

Uniform Size Standards

Flow cytometry can be a useful tool for the estimation of cell size, as forward angle light scatter (FSC) measurements are proportional to the cross-sectional area of cells. FSC data from microspheres of known size may be compared to unknown samples to estimate cell size, and can also be used to generate calibration curves for quality control purposes.

Our Size Calibration Standards kit is composed of five microsphere populations ranging in size from 4 to 11 μ m in diameter.



Small Bead Calibration Kits

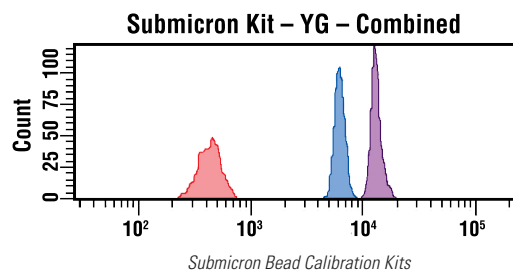
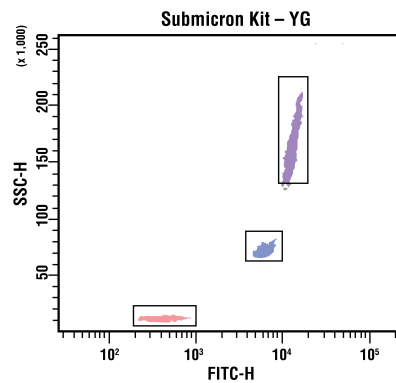
Current applications in flow cytometry extend far beyond traditional lymphocyte immunophenotyping, with some involving the analysis of very small particles such as platelet- and endothelial-derived microparticles or microbial species.

Our Small Bead Calibration Kits allow operators to verify the resolution capabilities of the flow cytometer, as size references, and to establish appropriate instrument settings for analysis. We offer the following kits to span a range of needs, and users are welcome to combine kits as needed.

Nanobead Calibration Kit (nominal diameters of 50nm and 100 nm)

Submicron Bead Calibration Kit (nominal diameters of 0.2 μ m, 0.5 μ m, and 0.8 μ m)

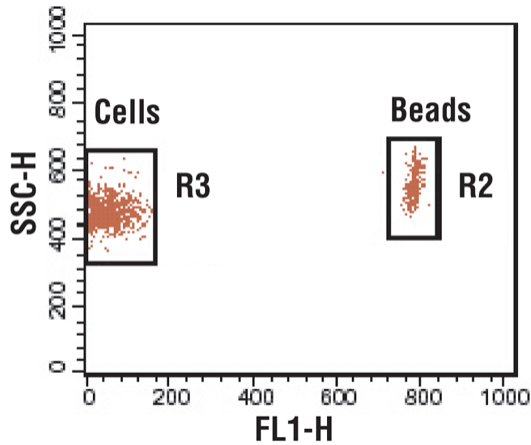
Micron Bead Calibration Kit (nominal diameters 1.0 μ m, 3.0 μ m, and 6.0 μ m)



COUNT STANDARD

Absolute Counts Made Easy

Our Flow Cytometry Absolute Count Standard™ is designed for the accurate enumeration of cells or particles. The microspheres are internally dyed with multiple fluorochromes, which enable excitation by a common argon (488nm) laser and emission across the full spectrum. Cell count may be easily calculated by determining the ratio of fluorescent count beads to unlabeled cells. The microspheres are sized (7-9µm) and are provided at a known concentration, as verified by an outside source. This permits their use as a count standard in all channels.



Flow Cytometry Absolute Count Standard™

SIZE AND COUNT STANDARDS

Cat. #	Product Description
829	Size Calibration Standards Kit
832	Submicron Bead Calibration Kit • 0.2µm, 0.5µm, 0.8µm
833	Micron Bead Calibration Kit • 1.0µm, 3.0µm, 6.0µm
834	Nanobead Calibration Kit • 50nm, 100nm
580	Flow Cytometry Absolute Count Standard™




Bangs Laboratories manufactures magnetic, polymeric and silica microsphere products setting the standards for diagnostic, research, and flow cytometry applications. No matter the project, we have a product that serves or we'll work to custom-design a solution to fit. And that's not the half of it.

We also stand behind our products. Regardless of the size of your question or the size of your company, we offer tech support, absolutely free.

Sound interesting? 

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