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TECHNICAL DATA SHEET 916

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Small Bead Calibration Kits

Catalog Numbers: BLI832 & BLI833

DESCRIPTION

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, and to establish appropriate instrument settings for the analyses.

CHARACTERISTICS

Nominal Diameters: 0.2µm, 0.5µm, 0.8µm (Cat. # BLI832)

1.0µm, 3.0µm, 6.0µm (Cat. # BLI833)

Particle Concentration: 1 x 10⁸ particles/ml (Cat. # BLI832)

2 x 10⁶ particles/ml (Cat. # BLI833)

Fluorescence: YG (488nm excitation, green emission)

PROCEDURE

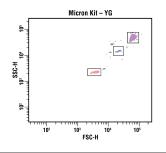
Researchers are advised to optimize the use of particles in any application.

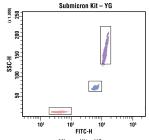
- Bath sonicate for 30 seconds or vigorously shake the bottle to ensure uniform suspension of standard.
- Add 1 drop of each of the 3 sized beads into isotonic phosphate saline (pH 7.2).
- Run the beads, adjusting voltages until the populations appear in the SSC/FITC dot plot. Construct fluorescence, SSC and/or FSC histograms and conduct gating as appropriate for the specific application.

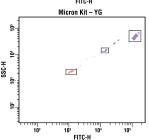
EXPECTED RESULTS

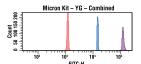
The following dot plots and histograms demonstrate results obtained on a standard BD LSRIL

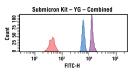
The resolution capabilities of instruments can differ, and results may vary depending upon the specific instrument model and any specialized components.











Microspheres are internally dyed with our YG fluorophore, permitting gating via SSC / green fluorescence. Small particles present particular challenges in flow cytometry, and users may or may not be able to conduct FSC (size) -based gating. It may also be necessary to adjust thresholds and voltages to achieve separation of the populations.

STORAGE AND SAFETY

Storage Store at 4°C. Freezing of particles may result in irreversible aggregation and loss of binding activity. Stable for 12 months from date of purchase, provided the product is handled in accordance with the manufacturer's recommendations. Specifically, the reagent should be kept in its opaque bottle.

Safety

This particle suspension contains sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azides. Upon disposal of material, flush with a large volume of water to prevent azide accumulation. Please consult the Safety Data Sheet for more information.

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	Sizes
BLI832	Submicron Bead Calibration Kit ● 0.2µm, 0.5µm, 0.8µm	1 kit
BLI833	Micron Bead Calibration Kit ● 1.0µm, 3.0µm, 6.0µm *Kits contain 3ml per population, 60 tests.	1 kit

TO ORDER

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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

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