

Technical Data Sheet

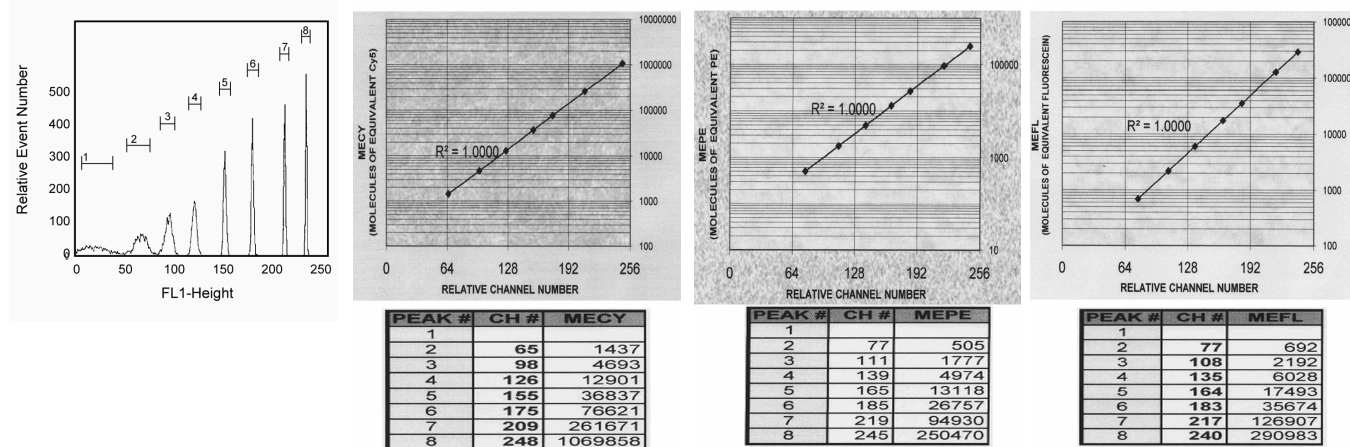
Rainbow Calibration Particles (8 peaks), 3.0 - 3.4 μm

Product Information

Material Number: 559123
Size: 5.0 ml
Storage Buffer: Aqueous solution containing 0.01%NP40 and ≤ 0.02% sodium azide.

Description

The vial contains a mixture of 3.0 - 3.4 μm Rainbow Particles that are dyed to eight different fluorescent intensities. Every Rainbow Particle contains a mixture of fluorophores that are excited at any wavelength from 365 - 650 nm. The Rainbow Particles have emission spectra compatible with many common fluorophores used for immunofluorescent staining with flow cytometric analysis.



Far Left: Rainbow Particle peak separation based on FL1 fluorescence intensity expressed in relative channel numbers.

Center Left: Molecules of Equivalent Cy5™ (MECY) versus relative channel number for the 8 peaks present in the Rainbow Particles.

Center Right: Molecules of Equivalent Phycoerythrin (MEPE) versus relative channel number for the 8 peaks present in the Rainbow Particles.

Far Right: Molecules of Equivalent Fluorescein (MEFL) versus relative channel number for the 8 peaks present in the Rainbow Particles.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Recommended Assay Procedure:

This particle mixture (~10x10⁶ particles/ml) is useful for routine calibration of flow cytometers. Before use, resuspend the particles by vortexing. Dilution of 3 - 5 drops of particles to 1 ml of sheath fluid will provide an adequate number of particles for flow cytometric analysis.

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.
- Cy is a trademark of Amersham Biosciences Limited.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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