Technical Data Sheet

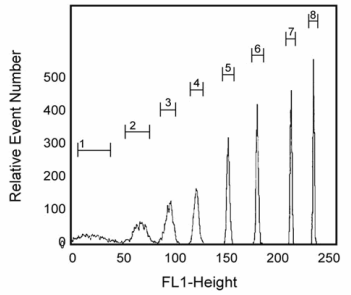
Rainbow Calibration Particles (8 peaks), 3.0 - 3.4 µm

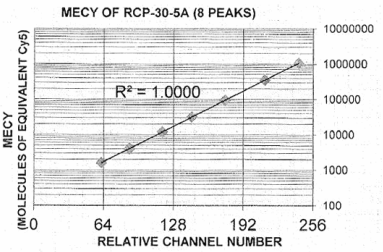
Product Information

Material Number: **559123**
Size: 5 mL
Storage Buffer: Aqueous solution containing 0.01%NP40 and ≤ 0.02% sodium azide.

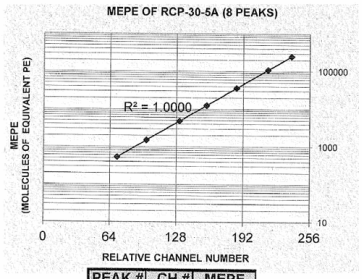
Description

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.

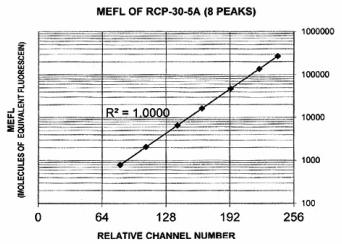




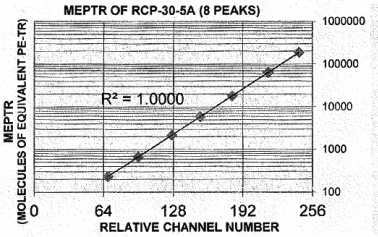
PEAK #	CH #	MECY
1		
2	62	1614
3	87	4035
4	118	12025
5	145	31896
6	175	95682
7	212	353225
8	243	1077421



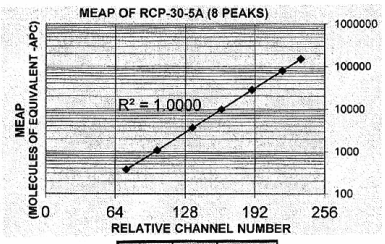
PEAK #	CH #	MEPE
1		
2	71	531
3	99	1504
4	131	4819
5	157	12506
6	186	36159
7	216	109588
8	238	250892



PEAK #	CH #	MEFL
1		
2	82	792
3	108	2079
4	139	6588
5	164	16471
6	193	47497
7	221	137049
8	240	271647



PEAK #	CH #	MEPTR
1		
2	68	233
3	96	669
4	127	2179
5	153	5929
6	182	18219
7	215	63944
8	244	188785



PEAK #	CH #	MEAP
1		
2	74	373
3	102	1079
4	135	3633
5	161	9896
6	189	28189
7	217	79831
8	234	151008

Upper Left: Rainbow Particle peak separation based on FL1 fluorescence intensity expressed in relative channel numbers.
Upper Center: Molecules of Equivalent Cy5™ (MECY) versus relative channel number for the 8 peaks present in the Rainbow Particles.
Upper Right: Molecules of Equivalent Phycoerythrin (MEPE) versus relative channel number for the 8 peaks present in the Rainbow Particles.
Lower Left: Molecules of Equivalent Fluorescein (MEFL) versus relative channel number for the 8 peaks present in the Rainbow Particles.
Lower Middle: Molecules of Equivalent Phycoerythrin-TR (MEPTR) versus relative channel number for the 8 peaks present in the Rainbow Particles.
Lower Right: Molecules of Equivalent APC (MEAP) 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.

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Application Notes

Recommended Assay Procedure:

This particle mixture (~10x10^6 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

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Cy is a trademark of GE Healthcare.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.