

## Technical Data Sheet

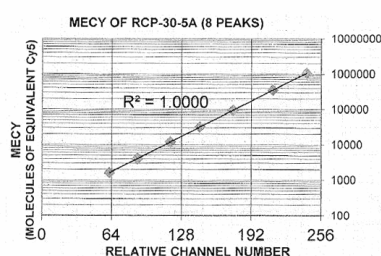
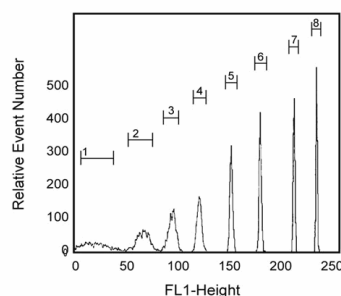
## Rainbow Calibration Particles (8 peaks), 3.0 - 3.4 μm

## Product Information

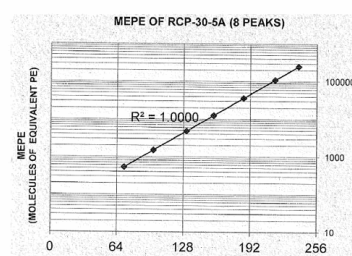
**Material Number:** 559123  
**Size:** 5 mL  
**Storage Buffer:** Aqueous solution containing 0.01%NP40 and ≤ 0.02% sodium azide.

## Description

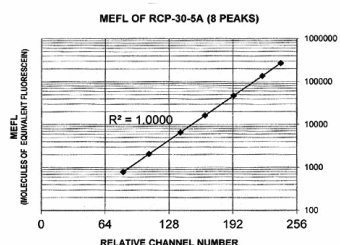
The vial contains a mixture of 3.0 - 3.4 μm Rainbow Particles that are dyed to eight different fluorescent intensities. Every Rainbow Particle contains a mixture of fluorophores that are excited at any wavelength from 365 - 650 nm. The Rainbow Particles have emission spectra compatible with many common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



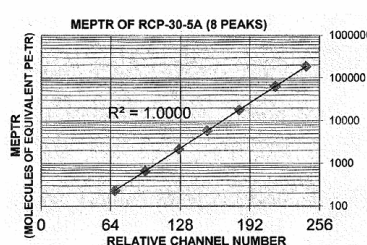
PEAK #	CH #	MECY
1		
2	62	1614
3	87	4035
4	118	12025
5	145	31896
6	175	95682
7	212	353225
8	243	1077421



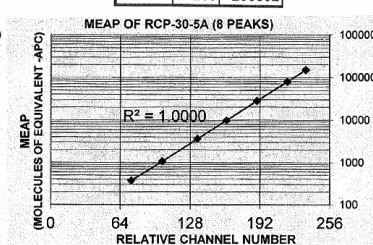
PEAK #	CH #	MEPE
1		
2	71	531
3	99	1504
4	131	4819
5	157	12506
6	186	36159
7	216	109588
8	238	250892



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.

## BD Biosciences

bdbiosciences.com

United States Canada Europe Japan Asia Pacific Latin America/Caribbean  
 877.232.8995 866.979.9408 32.2.400.98.95 0120.8555.90 65.6861.0633 55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

© 2017 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.

559123 Rev. 8



## Application Notes

### Recommended Assay Procedure:

This particle mixture ( $\sim 10 \times 10^6$  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](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.