

# QC3™ and QC Windows®

Unified Instrument Set-Up



BEADS • ABOVE THE REST



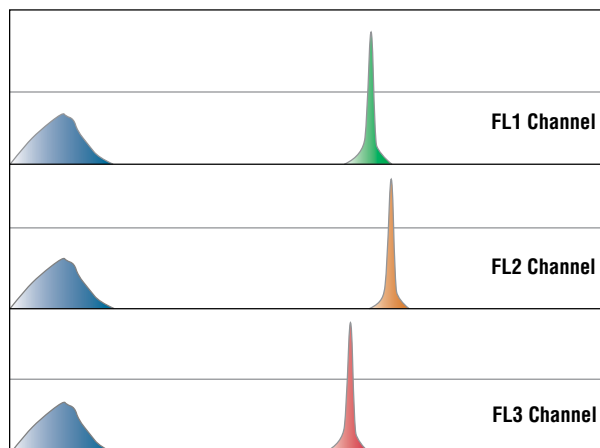
The QC3™ and QC Windows® kits allow you to monitor and correct for daily variations in instrument performance.

### Daily Set-Up

Flow cytometers are highly configurable, and results can vary dramatically with different instrument settings. Establishing a common “Window of Analysis” for each detector, with upper and lower fluorescence limits defined, allows reference populations to be positioned in approximately the same place on the scale. This type of standardized instrument set-up ensures consistency of results from specific instruments and enables meaningful data comparison between instruments. Standardized instrument set-up using our QC3 or QC Windows products can ameliorate differences in range, relative scale, and reporting units, as well as daily fluctuation due to electronic noise, and ambient temperature and humidity.

### Environmentally-Responsive Standards

QC3 kits include bead populations surface-labeled with two or more fluorochromes for defining and upper fluorescence threshold for each detector. The QC Windows kit includes a blank microsphere population, in addition to the labeled QC3 microspheres. Because the fluorescent populations are surface-labeled with the same fluorochromes used in flow cytometry, they are environmentally-responsive: the fluorochrome on the bead responds to the buffer (pH, ionic strength) in the same manner as the fluorochrome on the labeled cell. As a consequence, QC3 beads can alert you to adverse conditions in your system, such as contaminants or changes in pH.



Relative Channel Number

*FITC/PE/PE-Cy™5 QC Windows® kit exhibiting peaks in each fluorescent channel.*

QC3 and QC Windows standards permit the establishment of a meaningful framework for the comparison of data over time, and between different instruments and laboratories.

## QC3™ AND QC WINDOWS®

### Cat. # Product Description

841	QC3™	(FITC/PE)
842	QC3™	(FITC/PE/PE-TR)
843	QC3™	(FITC/PE/PE-Cy™5)
844	QC3™	(FITC/PE/PE-Cy™5, APC)

US Patent No. 5,073,497

845	QC Windows®	(FITC/PE)
846	QC Windows®	(FITC/PE/PE-TR)
847	QC Windows®	(FITC/PE/PE-Cy™5)
848	QC Windows®	(FITC/PE/PE-Cy™5, APC)

US Patents No. 5,089,416 and 5,073,597

Cy™, including Cy5, is a trademark of GE Healthcare Limited. These products are manufactured under license from Carnegie Mellon University under U.S. Patent Number 5,268,486 and related patents.



**Bangs Laboratories** supplies a large variety of uniform 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? Give us a call.**



# 317.570.7020

QC3™ and QC Windows®. Revision 1.04