

# Fluorescence Reference Standards

**Daily standardization with Fluorescence Reference Standards ensures optimal and reproducible instrument performance.**

## Spectral Matching

Fluorescence Reference Standards make ideal reference material for instrument or assay standardization. These standards approximate the size of human lymphocytes (7-9µm in diameter) and are available in a variety of fluorochromes commonly used in clinical and research applications. Fluorescence Reference Standards are labeled with the same fluorochromes used to label biological samples. The excitation and emission spectra of these microspheres have been carefully matched to those of typical stained specimens. The standards fall in the same fluorescence intensity range as labeled cell samples, allowing you to standardize your instrument under the same amplifier and gain conditions used for sample analysis.

### Visible Spectrum



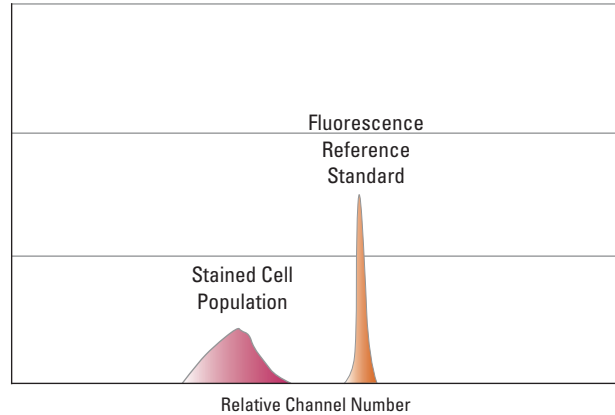
Catalog Code	Description	MW	Excitation (nm)	Emission (nm)	Purpose
890	Certified Blank™				reference
897	Acridine Orange	265	500	526	DNA/RNA
886	Alexa Fluor® 488	643	499	519	conjugate
887	Alexa Fluor® 647	1300	652	668	conjugate
901	Allophycocyanine (APC)	104k	650	660	conjugate
898	Chlorophyll ( <i>a + b</i> )	8014 (a)907 (b)	430,453	642,662	plant pigment
895	Cy™5	792	649	666	conjugate
906	DAPI	277	350	470	DNA (A-T)
913	Far-Out Red	-	475,590	663	reference
891	Fluorescein	389	495	519	conjugate
894	Hoechst 33342	616	346	375,390	dsDNA
916	Pacific Blue™	339	410	455	conjugate
899	PE (R-Phycoerythrin)	240k	480, 565	578	conjugate
908	PE-Cy™5	240k	480,565,650	670	conjugate
889	PE-Cy™7	240k	480	767	conjugate
909	PE-TR	240k	480,565,650	670	conjugate
892	Propidium Iodide	668	536	617	DNA intercalator
905	T.M. Rhodamine (TRITC, TAMRA)	430	557	576	conjugate
893	Texas Red® (Sulforhodamine)	625	589	615	conjugate
915	Violet Laser (Glacial Blue)	-	360	450	reference

### Daily Instrument Set-up

To reduce variation and achieve optimal results, instrument set-up should include the establishment of target conditions for sample analysis. This standardization is often accomplished by assigning a specific target channel to a stable reference material and adjusting the instrument settings to reproduce these conditions each day. An appropriate reference material will match both the physical and fluorescent properties of the samples being analyzed.

### Intra-assay

The Fluorescence Reference Standards may be added directly to cell samples and used as an internal reference. In this way, results from different days, operators, or even laboratories can be compared. If the needed fluorochrome is not featured in our catalog, a standard may be generated using our antibody- or dye-binding beads.



Fluorescence Reference Standard providing point of reference for stained cell population.

#### FLUORESCENCE REFERENCE STANDARDS

Cat. #	Product Description
890	Certified Blank™ (no label)
897	Acridine Orange
886	Alexa Fluor® 488
887	Alexa Fluor® 647
901	Allophycocyanine (APC)
898	Chlorophyll
895	Cy™5
906	DAPI
913	Far-Out Red
891	Fluorescein (FITC)
894	Hoechst 33342
916	Pacific Blue™
908	PE-Cy™5
889	PE-Cy™7
909	PE-TR
892	Propidium Iodide
899	R-Phycoerythrin (R-PE)
905	T.M Rhodamine
893	Texas Red®
915	Violet Laser

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AutoFluor™, Certified Blank™, and Simply Cellular® are registered trademarks or trademarks of Bangs Laboratories, Inc.

Cy™, including Cy5 and Cy7, are trademarks 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.

#### ANTIBODY- OR DYE-BINDING BEADS

Cat. #	Product Description
810	Simply Cellular® anti-Mouse IgG
812	Simply Cellular® anti-Human IgG
813	Simply Cellular® anti-Rat IgG
553	Flow Cytometry Protein A Antibody Binding Beads
554	Flow Cytometry Protein G Antibody Binding Beads
450	Viability Dye Compensation Standard, 4µm
451	Viability Dye Compensation Standard, 8µm





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 800.387.0672