

Cell Cycle Analysis

Cell Viability, Cell Proliferation, and Live-Cell Function



BEADS • ABOVE THE REST



Your best options for cell cycle analyses.

Bangs Laboratories offers a range of microspheres that may be used as standards to support assays in cell cycle analysis. Beads may be used for routine instrument set-up and QC, or as test-specific standards. Standards are available for use with flow cytometers, fluorescence microscopes, and cell viability analyzers. Custom products or preparations can also be manufactured to meet the requirements of specific assays or analyzers.

Fluorescence Reference Standards

Products include beads that may be used as single-color fluorescent reference standards, or mixed at specific ratios to achieve different levels of surrogate viable, apoptotic, or dead populations. Several of the actual dyes that are commonly used in cell cycle analysis are represented within our line of Fluorescence Reference Standards (FRS), and we additionally offer many fluorescent beads that may be used as spectral surrogates for other stains and indicators. A full listing of FRS is provided in datasheet BSS 009, *Fluorescence Reference Standards*. Spectra for alternate fluorophores may be viewed through our website (www.bangslabs.com) or in datasheet BSS 010, *Fluorescence Spectra*.

Suggested Products:

- 897 Acridine Orange
- 906 DAPI
- 891 Fluorescein
- 851 Fluorescein, 2µm
- 894 Hoechst 33342
- 892 Propidium Iodide
- 907 Rhodamine 123

Viability Dye Compensation Standard

Viability Dye Compensation Standards are suitable for labeling with LIVE/DEAD® stains or other amine-reactive dyes to generate compensation or

general reference standards for flow cytometric analyses. Beads are available in two diameters that approximate the sizes of common cell populations.

Suggested Products:

- 450 Viability Dye Compensation Standard, 4µm
- 451 Viability Dye Compensation Standard, 8µm

ViaCheck™ Viability and Concentration Controls

Our ViaCheck microsphere standards mimic the optical characteristics of live (undyed) and dead (blue dyed) cells in the trypan blue dye exclusion method. Non-biological surrogates remove the need for significant sample preparation, and offer exceptional stability and reproducibility. ViaCheck microsphere standards are pre-stained, and need only be loaded into the analyzer for confirmation of live/dead ratios and counts. They are available in a range of common concentrations and viability ratios.

Suggested Products:

- VC10B ViaCheck 0% Viability Control
- VC20B ViaCheck 50% Viability Control
- VC30B ViaCheck 75% Viability Control
- VC40B ViaCheck 90% Viability Control
- VC50B ViaCheck 100% Viability Control
- VC60N ViaCheck Concentration Control (1 x 10⁶)
- VC70N ViaCheck Concentration Control, (4 x 10⁶)
- VC80N ViaCheck Concentration Control, (8 x 10⁶)

FLUORESCENCE REFERENCE STANDARDS

Cat. # Product Description

890	Certified Blank™ (no label)
910	AutoFluor™
897	Acridine Orange
886	Alexa Fluor® 488
887	Alexa Fluor® 647
901	Allophycocyanine (APC)
914	APC-Cy™7
898	Chlorophyll
895	Cy™5
896	Dansyl Chloride
906	DAPI
891	Fluorescein (FITC)
851	Fluorescein (FITC), 2µm
903	Fura 2
894	Hoechst 33342
902	Indo 1
900	Oxazine 1
908	PE-Cy™5
889	PE-Cy™7
909	PE-TR
892	Propidium Iodide
899	R-Phycoerythrin (R-PE)
907	Rhodamine 123
904	Rhodamine B
905	T.M Rhodamine
893	Texas Red®
915	Violet Laser

VIABILITY DYE COMPENSATION STANDARD

Cat. # Product Description

450	Viability Dye Standard, 4µm
451	Viability Dye Standard, 8µm

VIACHECK™

Cat. # Product Description

VC10B	ViaCheck™ 0% Viability Control
VC20B	ViaCheck™ 50% Viability Control
VC30B	ViaCheck™ 75% Viability Control
VC40B	ViaCheck™ 90% Viability Control
VC50B	ViaCheck™ 100% Viability Control
VC60N	ViaCheck™ Concentration Control (1 x 10 ⁶)
VC70N	ViaCheck™ Concentration Control (4 x 10 ⁶)
VC80N	ViaCheck™ Concentration Control (8 x 10 ⁶)

- Alexa Fluor®, LIVE/DEAD®, and Texas Red® are registered trademarks of Life Technologies Corporation.
- AutoFluor™ and Certified Blank™ are 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.
- ViaCheck™ is a trademark of Polysciences, Inc.



Bangs Laboratories supplies a large variety of uniform polymeric, silica, and magnetic 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

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