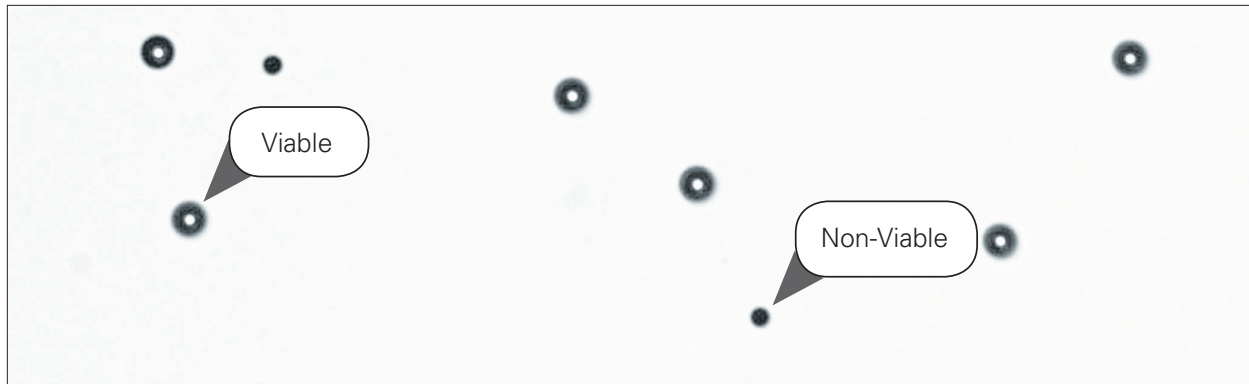


# ViaCheck™ Cell Viability & Concentration Instrument Standards for Cell Viability Analyzers

Image-based instrument cell viability controls offering discrete “live” and “dead” populations and concentrations.



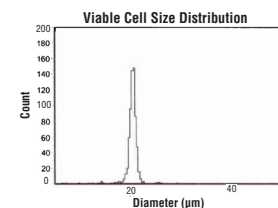
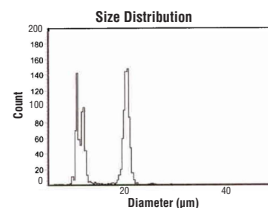
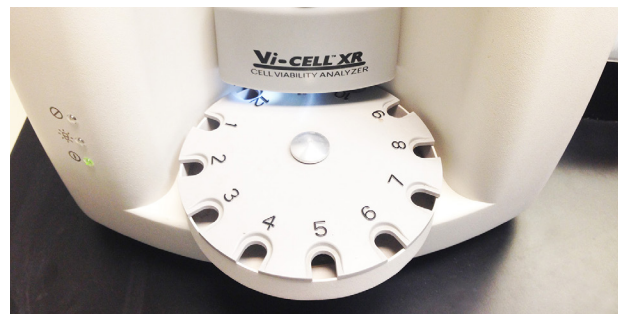
## Description

Trypan blue dye exclusion is a common method for the determination of cell viability. It is used extensively in cell culture programs, and for a range of research studies including apoptosis, cytopathic effects of viral infection, and effects of sample processing methods on cell viability and concentration.

Instrumental methods for cell viability analysis provide significant advantages over manual determinations, offering high accuracy, precision, and throughput. However, as with any analytical instrument, it is important to implement a QC program to ensure confidence in results.

ViaCheck™ Viability Instrument Standards are part of our extensive line of microsphere standards for instrument QC. ViaCheck™ standards mimic the characteristics of live and dead cells in the trypan blue dye exclusion method, and may be used to confirm the capabilities and verify the performance of image-based cell viability instruments. The standards are available in a range of common concentrations and live/dead ratios, as well as custom preparations and volumes.

ViaCheck™ complement our extensive catalog of standards, including NIST Traceable Size Standards, SureCount™ Particle Count Standards, and a complete collection of Flow Cytometry Standards.



## RESULTS

Cell Count	1286
Viable Cell Count	677
Viability (%)	52.6
Total Cells/mL (x 1.0E <sup>6</sup> )	1.32
Viable Cells/mL (x 1.0E <sup>6</sup> )	0.69
Average Diameter (µm)	15.98
Average Circularity	0.95
Images	50
Average Cells/Image	25.7
Average Background Intensity	205



### Additional Literature

PDS 706: *ViaCheck™ Viability Controls*  
 TSD 0711: *ViaCheck™ for Cell Viability Analyzers: Best Practices*  
 TSD 0706: *Handling & Pipetting Concentration Standards*  
 Application Note 0708: *Optimization of Vi-CELL® XR Settings for calibration using ViaCheck™ Controls.*

### VIACHECK™ SINGLESLOTS™

Cat. #	Product Description
VC10BSS	ViaCheck™ 0% Viability Control
VC25BSS	ViaCheck™ 25% Viability Control
VC20BSS	ViaCheck™ 50% Viability Control
VC30BSS	ViaCheck™ 75% Viability Control
VC40BSS	ViaCheck™ 90% Viability Control
VC50BSS	ViaCheck™ 100% Viability Control
VC50NSS	ViaCheck™ Concentration Control (0.5 x 10 <sup>6</sup> )
VC60NSS	ViaCheck™ Concentration Control (1 x 10 <sup>6</sup> )
VC70NSS	ViaCheck™ Concentration Control (4 x 10 <sup>6</sup> )
VC80NSS	ViaCheck™ Concentration Control (8 x 10 <sup>6</sup> )

ViaCheck™ & SingleShots™ are trademarks of Polysciences, Inc.

### ViaCheck™ SingleShots™

ViaCheck™ SingleShots™, affordable single-use QC. Mix, dispense & run for confirmation of live/dead ratios and counts. ViaCheck™ SingleShots™ minimize error and maximize efficiency by circumventing potential human error from repeated bottle resuspension & pipetting steps.

### VIACHECK™ (20ML)

Cat. #	Product Description
VC10B	ViaCheck™ 0% Viability Control
VC25B	ViaCheck™ 25% Viability Control
VC20B	ViaCheck™ 50% Viability Control
VC30B	ViaCheck™ 75% Viability Control
VC40B	ViaCheck™ 90% Viability Control
VC50B	ViaCheck™ 100% Viability Control
VC50N	ViaCheck™ Concentration Control (0.5 x 10 <sup>6</sup> )
VC60N	ViaCheck™ Concentration Control (1 x 10 <sup>6</sup> )
VC70N	ViaCheck™ Concentration Control (4 x 10 <sup>6</sup> )
VC80N	ViaCheck™ Concentration Control (8 x 10 <sup>6</sup> )




**Bangs Laboratories** manufactures magnetic, 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.

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 [info@bangslabs.com](mailto:info@bangslabs.com)

 800.387.0672