Polysciences, Inc.
Chemistry beyond the ordinary

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ViaCheck™

Cell Viability Instrument Standards

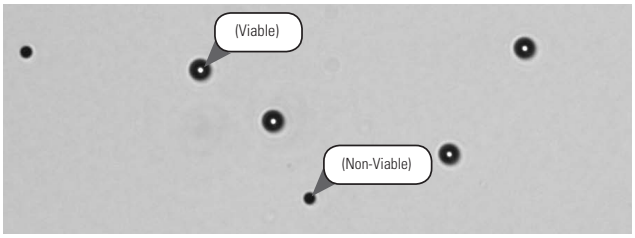
DESCRIPTION

Trypan blue dye exclusion is a common method for the determination of cell viability. It is used extensively in cell and tissue 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.

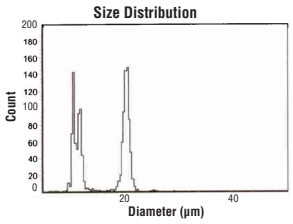
Instrumental methods for cell viability analysis provide significant advantages over manual determinations, offering high accuracy, precision, and throughput. However, as with any analytical instrument, it is important to implement a QC program to ensure confidence in results.

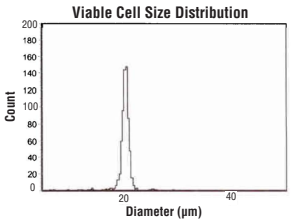
ViaCheck™ Viability Instrument Standards are an addition to our extensive line of microsphere standards for instrument QC. ViaCheck™ standards mimic the light scattering characteristics of live and dead cells in the trypan blue dye exclusion method, and may be used to confirm the capabilities and verify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

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



Sample image and Vi-CELL XR data of ViaCheck™ 50% Viability Control particles.





RESULTS

Cell Count	1286
Viable Cell Count	677
Viability (%)	52.6
Total Cells/mL (x 1.0E6)	1.32
Viable Cells/mL (x 1.0E6)	0.69
Average Diameter (µm)	15.98
Average Circularity	0.95
Images	50
Average Cells/Image	25.7
Average Background Intensity	205

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ViaCheck™ (20mL)

Cat. #	Description
24622	ViaCheck™ 0% Viability Control
25997	ViaCheck™ 25% Viability Control
24623	ViaCheck™ 50% Viability Control
24624	ViaCheck™ 75% Viability Control
24625	ViaCheck™ 90% Viability Control
24626	ViaCheck™ 100% Viability Control
26409	ViaCheck™ Concentration Control (0.5 x 10^6)
24627	ViaCheck™ Concentration Control (1 x 10^6)
24628	ViaCheck™ Concentration Control (4 x 10^6)
24629	ViaCheck™ Concentration Control (8 x 10^6)

ViaCheck™ SingleShots™

Cat. #	Description
BLI10BS	ViaCheck™ 0% Viability Control
BLI25BS	ViaCheck™ 25% Viability Control
BLI20BS	ViaCheck™ 50% Viability Control
BLI30BS	ViaCheck™ 75% Viability Control
BLI40BS	ViaCheck™ 90% Viability Control
BLI50BS	ViaCheck™ 100% Viability Control
BLIVC50NSS	ViaCheck™ Concentration Control (0.5 x 10^6)
BLI60NS	ViaCheck™ Concentration Control (1 x 10^6)
BLI70NS	ViaCheck™ Concentration Control (4 x 10^6)
BLI80NS	ViaCheck™ Concentration Control (8 x 10^6)

- ViaCheck™ is a registered trademark of Polysciences, Inc.

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