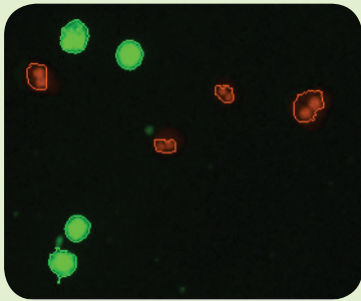


# Cellometer<sup>®</sup> Vision Cell Analyzer

*Optimized Analysis of Primary Cells for Toxicology, Diabetes / Obesity, and Cellular Therapy Research*

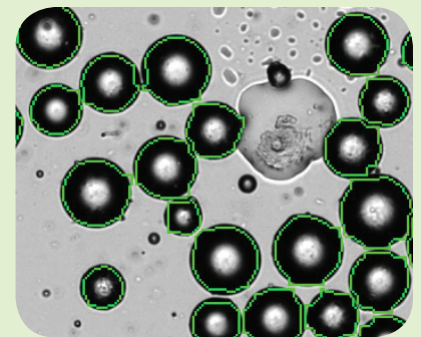


**Primary Cell Analysis:** The Vision is specifically optimized for analysis of a wide range of primary cells, including PBMCs, Splenocytes, Adipocytes, Stem Cells, and sensitive Hepatocytes (shown at left.) Dual fluorescence allows for staining of both live and dead cells, for the most accurate concentration and viability analysis of primary cells from heterogeneous samples, including whole blood, cord blood, and bone marrow.

**Analysis of Smaller Cell Types:** The 10x instrument format allows researchers to calculate cell concentration and viability for yeast, algae, and platelets quickly and accurately.

**Analysis of Larger Cell Types:** Cells with a large diameter, such as adipocytes (shown at right), require the more sophisticated imaging and cell counting algorithm offered by the Cellometer Vision Cell Analyzer.

**Cell Line Analysis:** Automatically calculate and capture fluorescent cell images, cell concentration, viability, and cell size in < 60 seconds!



## Proven Performance

Join the growing list of researchers using the Cellometer Vision Cell Analyzer for Hepatocytes:

- Alnylam Pharmaceuticals
- Biogen Idec
- Boehringer Ingelheim
- Bristol-Myers Squibb
- GlaxoSmithKline
- Johnson & Johnson
- University of North Carolina
- Pfizer
- Medical University of South Carolina
- Merck & Co
- Millenium Pharmaceuticals
- Vertex Pharmaceuticals



Request a Seminar or On-Site Demonstration Today!

- Measure primary cells in fresh blood samples without lysing
- Analyze sophisticated primary cells that cannot be counted manually or with basic cell counters

E-mail [info@nexcelom.com](mailto:info@nexcelom.com)  
or call **978-327-5340**



## Features of the Cellometer Vision Cell Analyzer

**Dual-Fluorescence:** Two standard fluorescence optics modules for dual-staining analysis of primary cells in heterogeneous samples (such as whole blood).

**Imaging Flexibility:** Fluorescence optics modules ranging from UV to near IR / far red can be easily changed in just a few minutes for GFP, RFP, DAPI, Hoechst, and others.

**Fast Results:** Obtain cell images, counts, size measurements, and viability calculations in < 60 seconds.

**GMP / GLP Compatible:** Optional software license for GMP / GLP support includes audit trail and access control. Available IQ/OQ package includes counting chambers, reference beads and IQ/OQ validation protocols.



## Advantages of Cellometer Image-Based Analysis

### ➤ Cell Imaging

- Visually check cell morphology
- Ensure only cells of interest are being counted
- Export cell images for presentations

### ➤ Simple, Fast Analysis

- Results in <60 seconds (2 clicks)
- Pre-set protocols and library of cell types

### ➤ Pattern-Recognition Software

- Accurately count cells in clumps
- Count irregular-shaped cells
- Eliminate debris from cell counts
- Differentiate cells based on size

### ➤ Automated Data Management

- Archive sample images
- Auto-save cell concentration and viability results

### ➤ Maintenance-free System

- Disposable counting chambers – no wash steps
- No routine instrument maintenance
- Robust optical modules and light source



Sample: Jurkat PI Viability  
 Dilution: 2.0  
 Assay: Assay #08\_PI Viability Jurkat  
 Description: Cell line viability using PI to stain dead cells  
 Cell: Jurkat\_PI\_Assay #08  
 Description:

	Bright Field	Fluorescence
Count	2028	184
Mean Size	12.9	13.7
		(BR Size)
Concentration	$3.67 \times 10^6$	$3.34 \times 10^5$
	$\frac{(BR - F1 \text{ Count})}{BR \text{ Total Count}} = 90.9\%$	