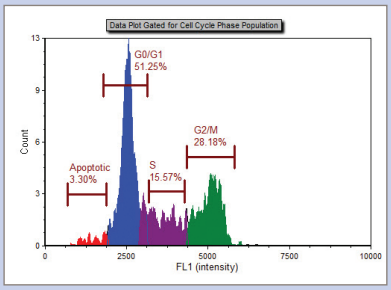
Cellometer® Vision CBA

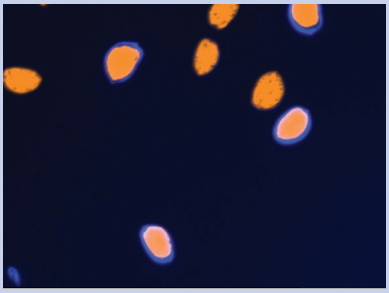
Analysis System for Cell-Based Assays

Easily Analyze Popular Cell-Based Assays in < 3 minutes!

Avoid Complex, Time-Consuming Flow-based Procedures

View Cell Morphology and Automatically Archive Cell Images





Complex Cell-Based Assays: The Vision CBA incorporates a patented design that offers the sensitive, image-based analysis and advanced software functions required for more complex cell-based assays.

Primary Cell Analysis: Dual fluorescence allows for staining of both live and dead cells, for the most accurate concentration and viability analysis of a wide variety of primary cells, including PBMCs, splenocytes, hepatocytes, and adipocytes.

Cell Line Analysis: Easily calculate concentration, viability, and transfection efficiency by GFP, RFP, and YFP. Accurately measure low cell concentrations.

Cell-Based Assays	Vision CBA
Cytotoxicity / Cell Killing	✓
Cell Proliferation	✓
GFP, RFP, YFP Transfection (strong / weak signal)	✓
Cell Cycle Analysis	✓
Apoptosis / Necrosis (Annexin V/PI)	✓
Mitochondrial Potential / Early Cell Death (JC-1)	✓
Immunophenotyping / Population Analysis	✓
ABC Transporter Assay / Drug Resistance	✓
Autophagy Analysis	✓
Aggresome Detection / Liver Toxicity	✓
Chromatin Condensation / Late Stage Apoptosis	✓

Seeing Is Believing!

Generate comparable results to flow cytometery with the Vision CBA Analysis System:

- In less Time
- Using Less Sample
- With Real-Time Image Confirmation

Request a Seminar or On-Site Demonstration

E-mail **info@nexcelom.com**
or call **978-327-5340**

Nexcelom Bioscience

Features of the Vision CBA Analysis System

Dual-Fluorescence: The Vision CBA Analysis System comes equipped with two standard fluorescent optics modules for dual-staining analysis of primary cells in heterogeneous samples.

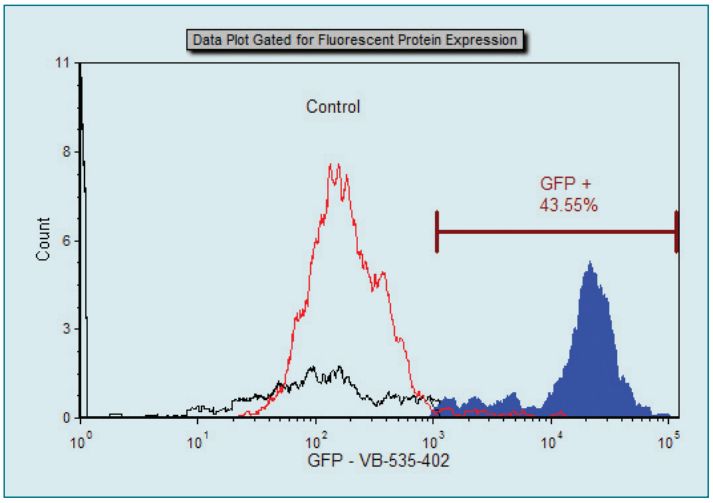
Fast Results: Obtain cell images, counts, size measurements, viability calculations, and population data in < 3 minutes.

Enhanced Sensitivity: Analyze more complex cell-based assays for apoptosis, liver toxicity, cell cycle, drug resistance, and more.

Imaging Flexibility: Fluorescent optics modules ranging from UV to red can be changed in just a few minutes, enabling advanced immunophenotyping experiments.

Menu of Pre-Set Assays: Drop-down menu of assays with pre-set optical module selection, exposure time, and data calculation/presentation criteria make imaging and analysis easy.

Vision CBA Analysis Software: This advanced data presentation and analysis software incorporates FCS Express 4 to generate the same sophisticated data output as most flow-based instruments, with the added advantage of cell images. Automated data output includes fluorescent images, dot plots, and histograms. Users have the option to modify the automatic gating with instant visual display and data update. Researchers can characterize cell populations with 1-step data analysis and reporting.



Advantages of Cellometer Image-Based Analysis

Accurate Cell Counting: Pattern-recognition software accurately counts cells in clumps, identifies irregular cell shapes, and eliminates debris from cell counts

Confirmation of Results: View cell morphology in real time to ensure only cells of interest are being counted

Automated Data Management: Archive sample images and auto-save counting and viability results to a secure network

No Maintenance: Unlike fluidic systems, the Vision CBA Analysis System requires no routine maintenance, making it easy to share between users