

CASY® Counter

With a track record dating back to the 1980's, thousands of labs around the world have grown to rely on CASY® technology. The release of the new software and the option of 3 different capillary sizes offers more applications on more cell types than ever before.

Fast, accurate cell counting

Label-free viability
measurements

Measure cell size/volume for
population gating

Aggregation & biomass
quantification

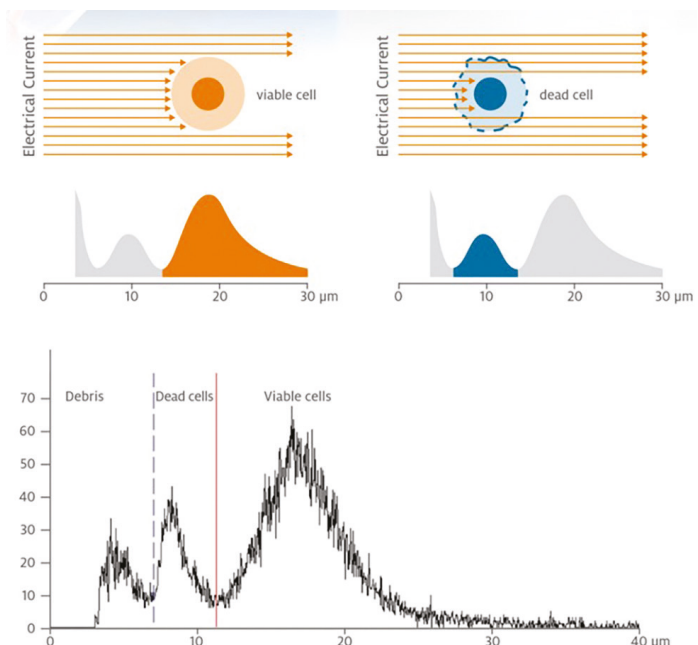


Certified lifetime calibration • GLP/GMP compliance • 21 CFT part 11

Introduction to the CASY® technology

Typically, 10 µl of cells are suspended in 10 ml of CASY Ton solution (a conductive isotonic buffer). The CASY® Counter draws this solution through a measurement pore of a defined size housed between two platinum electrodes. Within this gap, a low voltage field cycling at a rapid 1Mhz detects passing objects by measuring the increased electrical resistance. Each count is registered and at the same time, the object's volume is measured as viewed by the electric field. Viable cells, with their intact insulating membrane are seen by the system as larger than non-viable cells which 'leak' electricity. Gating the results on size produces a label-free method of measuring viability.

- Measurements run in triplicate
- Counts cells 0.7µm – 120 µm
- Compatible with bacteria, cell culture, primary cells, blood, yeast & algae

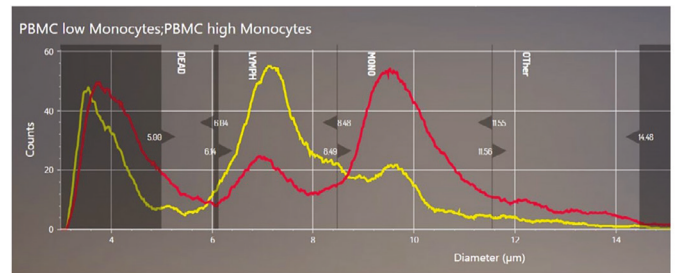


Top: CASY's measuring principle to discriminate between debris, dead & viable cells.

Bottom: graphical representation of chondrocyte primary cell culture

Application Focus: Primary cell lines & blood samples

The CASY® Counter technology is the ideal method for counting primary cells, clumpy solutions, complex cell mixes and blood products such as PBMCs. The software's overlay feature and size-gating offers powerful insights to a variety of aspects including quality control, understanding sample-to-sample or donor-to-donor variation, as well as sample storage effects to better comprehend downstream functional assays.



Depending on donor, the ratio between monocytes and lymphocytes can vary significantly and impact on downstream experimental processes

New Software Now Available

- Included as standard with new instruments
- Opportunity to upgrade some older models
- Intuitive instrument control
- Expanded & simplified measuring routines
- Evaluation & data organisation tools enabled



Demos, Technical Workshops & Pricing

To demo the CASY® Counter, attend a technical workshop, get a price or find out more please call or email our friendly account managers on 01223 316855 or sales@bioscience.co.uk



Service & Support

Cambridge Bioscience has manufacturer-trained staff who are here to help. Contact Henri or Duncan via instruments@bioscience.co.uk or by calling 01223 316855.