

NucleoCounter[®] NC-100[™]

– for total counting of mammalian cells and viability

NucleoCounter NC-100

The NucleoCounter NC-100 is a compact instrument which fits perfectly in any mammalian cell laboratory performing e.g. research, quality control or monitoring of production.

The NucleoCounter NC-100 is very simple to operate, and only limited training is required.

Principle: The NucleoCounter is an integrated fluorescence microscope designed to detect signals from the fluorescent dye, propidium iodide (PI) bound to DNA. Results from the NucleoCounter represent either total or nonviable cell concentration, depending on the sample preparation.



Key benefits

- Easy operation
- 30 sec. analysis time
- Calibration free
- No cleaning
- Maintenance and service free
- Excellent reproducibility
- Safe sample handling and disposal

As simple as 1-2-3



- 1 Sample Preparation**
Mix a representative cell sample with equal volume reagent A-100 (lysis/disaggregation buffer) and reagent B (stabilizing buffer)



- 2 Sampling**
Load the NucleoCassette with the lysate solution by immersing the tip of the cassette into the solution and pressing the piston.



- 3 Analysis**
Place the NucleoCassette in the instrument and press the "Run" key. After 30 seconds the cell count is presented on the instrument display. Optionally data is transferred to an external PC using USB connection or printed on an external printer.

NucleoCassette™

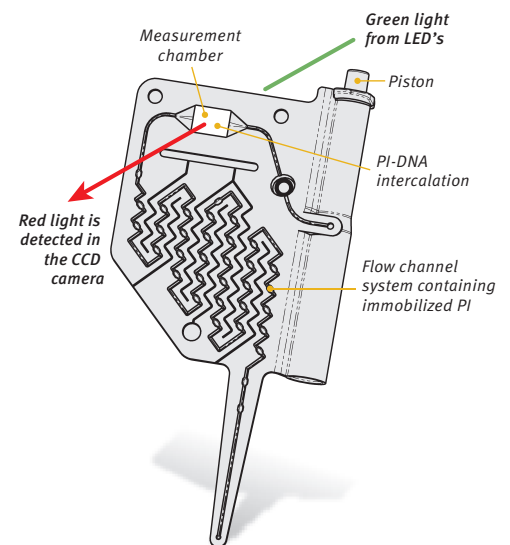
Propidium Iodide is immobilized in the interior of the disposable NucleoCassette. When the Cassette has been loaded with the cell lysate the PI is dissolved and the cellular DNA is stained.

After placement in the NucleoCounter the stained mixture is automatically transferred to the measurement chamber. Green light excites the PI-DNA intercalation and the red light emitted is registered in the CCD camera for correlation into a cell count.

After analysis the sample and the PI is contained inside the NucleoCassette, which can be safely discarded. This offers a safe sample disposal.

The thickness of the measurement chamber of each NucleoCassette is measured during production, accurately determining the analysed volume in each measurement. This, together with durable optical components, makes the NucleoCounter calibration free.

As the NucleoCassette contains the entire flow system as well as the measurement chamber, neither cleaning nor maintenance of the NucleoCounter instrument is needed.



NucleoCounter NC-100 Specifications

Loading volume:	50 µl is loaded into the NucleoCassette
Measurement volume:	2 µl in the measurement chamber of the NucleoCassette
Analysis time:	30 seconds
Measurement range:	5×10^3 to 2×10^6 cells/ml.
Size:	38 x 26 x 22 cm (W x H x D), weight 3 kg
Software:	NucleoView computer software for documentation and presentation - optional
Printer:	External printer for documentation - optional


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