

# NucleoCounter<sup>®</sup> SCC-100<sup>™</sup>

– for counting of somatic cells in milk

## NucleoCounter SCC-100

The NucleoCounter SCC-100 offers unique ease of use and effective determination of the number of somatic cells in a milk sample. The compact instrument fits perfectly in any research, reference or central laboratory function. Any milk sample can instantly be turned into in-house reference material. The NucleoCounter SCC-100 is very simple to operate with only limited training in laboratory work.

**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 the total cell concentration.



## 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**

The sample is easily prepared using equal amount of milk sample and Reagent C (1:1 dilution), followed by inversion of the sample preparation tube to assure mixing.



- 2 Sampling**

Load the SCC-Cassette with the diluted milk sample by immersing the tip of the cassette into the solution and pressing the piston.



- 3 Analysis**

Place the SCC Cassette in the instrument and press the "Run" key. After 30 seconds the somatic cell count is presented on the instrument display and printed on the external printer. Optionally data is transferred to an external PC using USB connection.

## SCC-Cassette

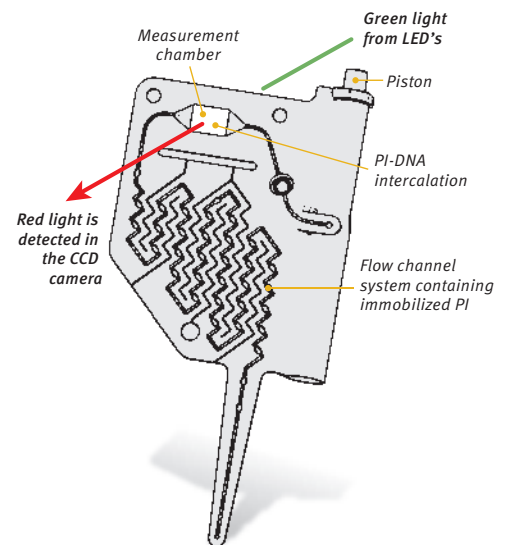
Propidium Iodide is immobilized in the interior of the disposable SCC-Cassette. When the Cassette has been loaded with the cell lysate the PI is dissolved and the cellular DNA is stained.

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 SCC-Cassette, which can be safely discarded. This offers a safe sample disposal.

The thickness of the measurement chamber of each SCC-Cassette 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 SCC-Cassette contains the entire flow system as well as the measurement chamber, neither cleaning nor maintenance of the NucleoCounter instrument is needed.



## NucleoCounter SCC-100 Specifications

<b>Analysis time:</b>	30 seconds
<b>Capacity:</b>	Up to 100 samples per hour
<b>WF:</b>	working factor = 1,000
<b>Measurement range:</b>	Working 10,000 to 2,000,000 cells/ml. Optimal 100,000 to 1,000,000/ml
<b>Size:</b>	38 x 26 x 22 cm (W x H x D), weight 3 kg
<b>Power:</b>	External AC7DC adapter 12V DC25W
<b>Software:</b>	SomaticView computer software for documentation and presentation - optional
<b>Printer:</b>	External printer for documentation



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