

NucleoCounter[®] SCC-100[™]

– for counting of somatic cells in milk

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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



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.



Sampling

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



Analysis

Place the SCC-Cassette™ in the instrument and press the “Run” key. After 30 sec. 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™

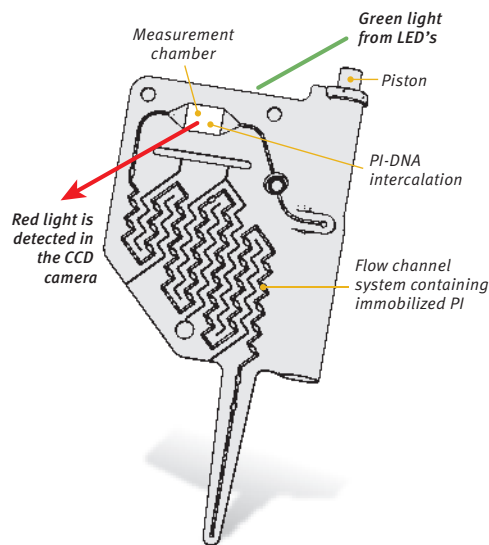
Propidium Iodide is immobilized in the interior of the disposable SCC-Cassette™. When the Cassette has been loaded with the cell lysate the PI is dissolved and the cellular DNA is stained.

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

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

