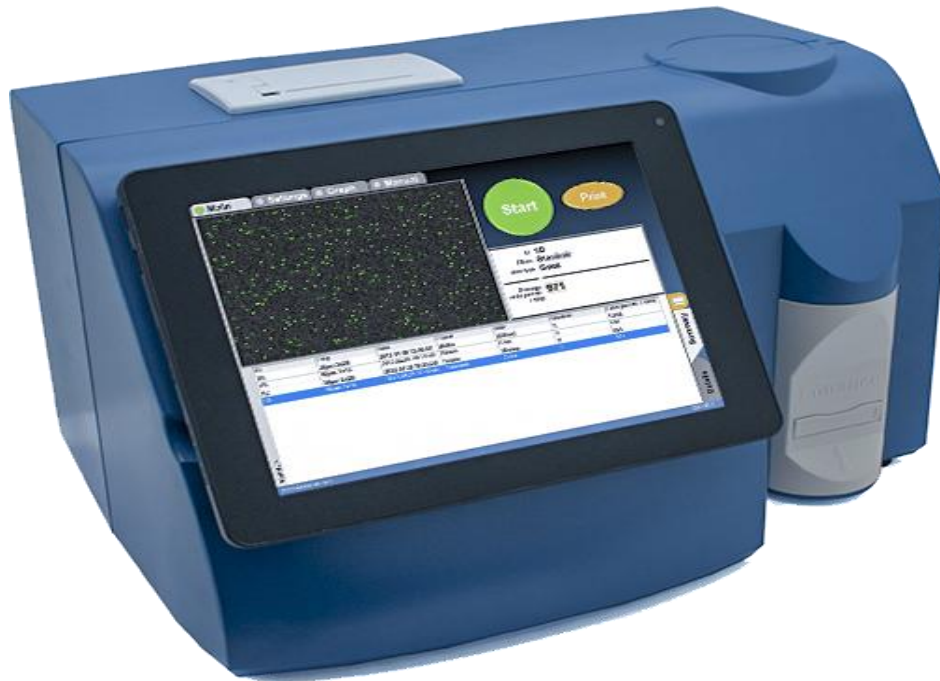


Somatic Cells Counter



Description

SOMATIC CELL COUNTER is based on fluorescent microscopic technique for somatic cells count. The fluorescent dye, LED optics and CCD technologies takes pictures and analyses the somatic cells in the milk. It is precise, reliable and quick.

In order the number of the somatic cells to be counted with SOMATIC CELL COUNTER, the milk sample is mixed with dye Sofia Green. It is necessary only 12 μ L from the ready sample to be pipetted directly on the disposable micro fluidic. Then the chip is placed in the device. For a period of between 20 seconds to 1 minute the analyses is conducted. Duration depends on the complexity and the number of the snapped fields. SOMATIC CELL COUNTER is automatically focused on the chip and colored cells are taken pictures of with the CCD camera. SOMATIC CELL COUNTER takes 16 pictures of the sample in each camera and with special algorithm makes the analyses. The algorithm for analyzing the digital images determines the number of the fluorescent cells and calculates their concentration. The result is automatically displayed.

The instrument is accurate, easy to use, Portable and low cost solution for instant analyses of somatic cells in the raw milk.

Specifications

Performance Data

Milk type	:	Cow, buffalo and mixed milk.
Time of Analyses	:	20 Seconds to 01 minute (Depends on number of pictures)
Concentration of cells in the sample	:	1 X 10 ⁷ cells/ml
Sample temperature	:	Milk temperature: 15 °C to 35 °C.
Sample volume	:	12 µl
Display	:	LCD display
Data interface	:	USB (4 Gigabyte)
Lens	:	4 X
LED	:	5 W Blue LED, 475 nm
Filters	:	Excitation filter and emission filter
Camera	:	CCD

Installation Requirements

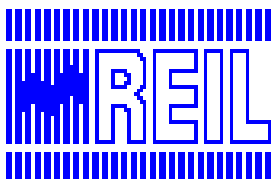
Power supply	:	220 V ± 10% AC, 50 Hz.
Ambient air temp.	:	5 °C to 50 °C.
Relative humidity	:	Up to 95%
Dimensions	:	W x D x H : 255mm x 380mm x 300mm
Weight	:	4.0 kg

CONSUMABLES

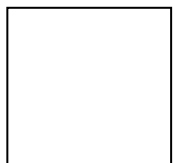
1. Sofia Green Agent Kit : 400 Tests
2. Disposable Micro fluidic Chip Kit : 200 Tests

For further information please contact:

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The above specifications are subject to change without prior notice in order to provide the best available and acquired for continual improvement.