FOSS

BacSomatic™

Integrated bacteria and somatic cell count

BacSomatic™ provides rapid hygiene testing of milk. BacSomatic is the first-ever integrated bacteria and somatic cell tester and offers full automation for minimal reagent handling and consistent test results.

Integrated bacteria and somatic cell tester
Automatic and fast alternative to manual assay, providing instant, si-multaneous results for individual bacteria and somatic cell count with-in 9.5 minutes and 1.5 minutes for somatic cell count alone.

More accurate than alternative methods
A fully automated procedure avoids the risk of human error and in-consistency, while ready-to-use reagents in an enclosed bag system, ensure the exact same dosage for every measurement. A sensor in the reagent bag indicates the number of available tests remaining. The unique reagent concept includes control samples for quality assurance and GLP. Online remote monitoring ensures consistent performance and high uptime.

Simple and flexible to use
Built on a long heritage of FOSS analytical technology and backed by global FOSS support, BacSomatic combines robust performance with a modern interface. Very easy-to-use with intuitive touch-screen oper-ation for smarter money-saving decisions on how to use milk.

Sample types
Raw cow's milk and buffalo milk

Parameters
Individual Bacteria Count (IBC)
Somatic Cell Count (SCC)

Technology
Flow cytometry technology, counting individu-al bacteria cells and somatic cells. The IBC results can be converted to CFU results. BacSomatic software includes an easy and rapid tool to develop a robust conversion table between IBC and CFU.

Approvals
EURL/Microval
FDA/NCIMS
In compliance with ISO/IDF standards

ANALYTICS BEYOND MEASURE

Specifications

Feature	Specification
Analysis time	9.5 minutes for IBC, 1.5 minutes for SCC
Analysis capacity	SCC and IBC: 15 samples/hour IBC only: 15 samples/hour SCC only: 40 samples/hour
Sample intake	IBC & SCC: 7.2 ml IBC: 6.4 ml SCC: 2.5 ml
Sample temperature	2 - 42 °C (35.6-107.6 °F) (preserved) 2 - 4 degrees °C (non preserved)
Sample quality	Raw milk of normal composition and good quality. Unpreserved or preserved with
Carry-over effect	azidiol <1% relative, usually <0.5% (uncompensated) IBC and SCC IBC: 100 and
Working factor	SCC: 100
Measuring range	IBC: 5,000-20 mill. IBC/ml (approx. 1,500 to 10 mill CFU/ml) SCC: 0-10 mill. cells/ml
Performance range	IBC: 10,000 - 10 mill. IBC/ml SCC: 100,000 - 1.5 mill. cells/ml
Accuracy	IBC: Typical Sy,x < 0.25 log units from SPC (standard plate count) SCC: < 10% relative mean difference form Direct Microscopic
Reference or anchor	SCC Standard Plate Count (SPC) EN-ISO 4833-1:2013
method Dimensions (w x h	400 x 400 x 400 mm
x d) Weight	25 kg
Space requirements (w x d)	Approx. 600 x 630 mm
Power supply	110 - 240 V AC, 50/60 Hz
Power consumption	max 190 VA
Water supply for preparation	Purified water (<5 µS/cm3) The instrument does not require a direct connection to water tap but for chemical prepa-rations ultra pure de-mineralized water must be available
Waste	Max 1 l
Ambient temperature	Ambient temperature 5 - 35 °C (41 - 95 °F)
Relative humidity	<93% RH
Instrument management	
Networking software	FossManager™

Repeatability

Range (IBC/µl)	S_r (log-units)	Typical S_r (log units)
10 - 50	0.07	0.06
51 - 200	0.05	0.04
>200	0.04	0.02
Entire range	0.05	

Reproducibility (between instruments)

Range (IBC/µl)	S_R (log-units)	Typical S_R (log units)
10 - 50	0.11	0.08
51 - 200	0.07	0.06
>200	0.06	0.04

Repeatability

Range (SCC/µl)	CV, %
100 - 299	6
300 - 499	4
>500	3

Reproducibility

Range (SCC/µl)	S_R, %
100 - 299	7
300 - 499	5
>500	4

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