

## BactoScan™ FC+

The approved rapid method for determination of total bacteria in raw milk



ANALYTICS BEYOND MEASURE

Based on Individual Bacteria Count (IBC), BactoScan™ FC+ gives an accurate determination of the hygienic quality of raw milk with a capacity of testing up to 200 samples per hour. BactoScan is the industrial standard in many countries all over the world, and in the EU more than 75% of all milk supplies are paid based on BactoScan results.

### Superior accuracy through Individual Bacteria Count

BactoScan FC+ measures the hygienic quality of milk by analysing bacteria in raw milk. As the automated BactoScan FC+ counts the total bacteria as single cells and not clusters, it gives a uniform high accuracy of results.

### High capacity with confidence

High performance capacity enables a high throughput of milk samples. Reduce labour time and get instant results for fast response to farmers. The repeatability and reproducibility of BactoScan FC+ is excellent compared to plate count methods, while a self-cleaning program minimises carry-over contamination from previous samples.

### Optimise instrument management with FOSS digital services

Ensure consistent performance of all instruments in your network and avoid downtime by making upgrades and adjustments while instruments continue to run. Protect your data with automatic back up.

### Sample type

Cow, goat, sheep and buffalo milk

### Parameters

Individual Bacteria Count (IBC/ml)

### Technology

Flow cytometry technology that enables precise and instant milk bacteria analysis

### Approvals

BactoScan FC+ is a FDA/NCIMS and MicroVal (EURL) approved rapid electronic counting method and complies with ISO/IDF guidelines

# Specifications

## Performance

Measuring range: 5.000 - 20.000.000 IBC/ml

## Repeatability

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

Carry-over effect	< 0.5 % (uncompensated)
Sample type	Cow, sheep, goat and buffalo
Speed*	65, 130, 200 samples per hour
Working factor	Standard 300, (optionally: 95, 600 and 1200)
Accuracy	Typical $Sy.x < 0.25$ log units in the entire measuring range
Reference or anchor method:	Standard Plate Count (SPC) (IDF Standard100B:1991)

## Application data

Analysis time	9 minutes
Sample intake	approx. 4.5 ml
Sample temperature	2 – 42°C (35.6-107.6 F)
Sample quality	Raw milk of normal composition and good quality. Unpreserved or preserved with azidol
Instrument management	
Networking software	FossManager™

\*BactoScan™ FC+ Semiautomatic is only available at a capacity of 65 samples per hour. This version does not include Conveyor and Stirrer system.

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GB, August 2018

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