

Fossomatic™ 7 DC

Somatic and differential somatic cell counting for raw milk testing (SCC and DSCC)



The Fossomatic™ 7 DC provides accurate somatic and differential somatic cell counting (DSCC) capability, handling up to 600 samples per hour. Results are delivered after 1 minute while unique hardware and software features boost proficiency in the laboratory.

Offer better service with total and differential SCC

Unique test options such as new differential somatic cell count allow you to give farmers more sophisticated data for improved management of subclinical mastitis. It is the first high-throughput analyser for simultaneous differential somatic cell count and total somatic cell count.

Higher performance and flexible solution

With a low working factor of 150, you can rely on the repeatability of results over time, whether running at 100 or 600 samples per hour. A modular design makes Fossomatic 7 DC easy to clean and maintain.

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 database and calibration models with automatic back up of data.

Sample type

Raw milk from cows

Parameters

Total somatic cell count (SCC)
Differential somatic cell count (DSCC)

Technology

Flow cytometry technology that counts somatic cells and differential somatic cells.
Can be integrated with the MilkoScan™ 7 RM to form a CombiFoss™ 7 DC.

Approvals

SCC in compliance with ISO/IDF standards.
FDA/NCIMS and MicroVal (EURL) approved

Specifications

Performance		
Measuring range	0 – 10 mill cells/ml	
Performance range	SCC and DSCC 50K – 1.5 mill	
Repeatability	CV < 8% 50-99k SCC/ml CV < 6% 100-299k SCC/ml CV < 4% 300-499k SCC/ml CV < 3% 500-1500k SCC/ml	DSCC Sd < 5,6% at 50K SCC Sd < 3,0% at 100K SCC
Accuracy	< 10% relative mean diff. from DMSCC (Direct Microscopic Somatic Cell Count)	
Carry-over	< 1% relative	
Sample types	Cow's milk	
Application data		
Sample handling	<ul style="list-style-type: none">• Unpreserved raw milk must be fresh and less than 3 days old• Preserved samples must be less than 4 days old• Preservative: Bronopol• Storage: Milk samples should be stored at 2-6 °C. During transportation the temperature of preserved samples may rise to room temperature (~25 °C)	
Analysis capacity	100, 200, 300, 400, 500, or 600 samples per hour	
Sample intake	2.5 ml (programmable 2.0 – 5.0 ml)	
Working factor	150	
Instrument management		
Networking software	FossManager™	

Standards and approvals

- Fossomatic™ 7 DC is CE-labelled and complies with the following directives and regulations:
- EMC (ElectroMagnetic Compatibility) Directive 2014/30/EU
- LVD (Low Voltage) Directive 2014/35/EU
- Machinery Safety Directive 2006/42/EC
- Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixture, CLP (EC)
- WEEE Directive 2012/19/EU
- Packaging and packaging waste Directive 94/62/EC
- REACH 1907/2006/EC

Fossomatic technology complies with:

- AOAC
- ISO 13366-2 / IDF 148-2:2006
- Laser approval (FDA), IEC 60825-1
- FDA/NCIMS and MicroVal (EURL) approved

FOSS

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