

Fossomatic™ 7 DC

Somatic cell counting for raw milk testing



ANALYTICS BEYOND MEASURE

Offer better service with total and differential somatic cell counting

The world's first high-throughput analyser for simultaneous differential somatic cell count and total somatic cell count allows you to expand your service offering by giving farmers more sophisticated data for improved mastitis management.

7th generation technology improves operations

The 7th generation of the proven Fossomatic™ testing platform, the Fossomatic™ 7 DC includes new design features for easier maintenance and cleaning and reduced costs of operation. With a low working factor of 150 you can rely on the repeatability of results over time. The modular design makes periodic maintenance quicker and a sample conveyor without need for compressed air allows effective cleaning at the end of a shift. You can choose manual or automatic reagent mixing and rinse liquid can be refilled without having to stop the instrument.

More results with less man hours

The latest in networking software allows effective control of multiple instruments from a single desktop saving time and ensuring identical performance across instrument units regardless of location.

Sample type

SCC: Raw milk (cow) DSCC: Raw milk (cow)

Parameters

Somatic Cell Count (SCC) &
Differential Somatic Cell Count (DSCC)

Technology

Flow cytometry

Specifications

Performance		
Measuring range	0 – 10 mill cells/ml	
Performance range	SCC and DSCSS 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	

*CV = Coefficient of variation (STDev/AVG) x 100. (STDev = Standard deviation. AVG = Average)

Application data

Sample handling	· Unpreserved raw milk must be fresh and less than 4 days old · Preserved samples must be less than 5 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

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
- EURL/Microval (validation pending)
- FDA NCIMS (validation pending)

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