

# LactiCyte™ Somatic Cell Counter



## PRECISE SOMATIC CELL COUNT

- ✓ Rapid method (Test time < 1 minute)
- ✓ Accommodates raw & preserved milk
- ✓ Cow, Goat, Sheep & Buffalo
- ✓ Wide range (0 - 10,000,000 SCC/mL)
- ✓ Wide screen, print-out and PC Interface
- ✓ Customer defined thresholds
  - Warning Level
  - Critical Level

Providing rapid, accurate and affordable somatic cell counts for cow, goat, sheep and/or buffalo milk, the **LactiCyte** covers a wide range (from 0 to 10,000,000 SCC/mL). The range for actionable outcomes can be customized by the User (i.e. "Warning Level", "Critical Level"). Just insert a cartridge and test results are reported in <60 seconds via readout, printout & PC interface!

Based upon a fluorescent microscope technique and magnification approach to cell counting, the results are recorded by a charged-coupled device (CCD) camera digitalization of the actual cells. Excellent correlation with Direct Microscopic Somatic Cell Count (DMSCC).



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# LactiCyte™ Somatic Cell Counter

## LactiCyte™ SCC Specifications:

Measuring Range	0.1 to 10Mill SCC/mL
Correlation to DMSCC*	
100,000 SCC/mL	5%
400,000 SCC/mL	3%
600,000 SCC/mL	2%
Time per Test	<60 Sec (using x4 Chip)
Test per Chip	2 (x2 Chip) or 4 (x4 Chip)
Cell Chamber per Test	36 (x2 Chip) or 16 (x4 Chip)
Carry-Over Effect	0%
Sample Size	100 uL
Sample Temperature	+10 to +35° C
Power Consumption:	
Power Consumption	<50W
Power Requirement	100 to 240VAC 50/60Hz
Environmental:	
Ambient Air Temperature	+15 to +35° C
Humidity	30 - 80% Relative
Technical Data:	
Dimensions (W x H x D)	15.2 X 10.2 X 12 inches (38 X 26 X 30 cm)
Net Weight	12 lbs (5.3 kgs)
Gross Weight	31 lbs (14 kgs)

\*DMSCC = Direct Microscopic Somatic Cell Count

## The LactiCyte Start-Up Kit includes:

- 1 x LactiCyte Somatic Cell Counter
- 1 x Mini Vortex
- 1 x DC Power Supply with cord
- 1 x User's Manual
- 1 x Starter kit with LactiChips for 100 tests
- 2 x Automatic Pipette preset for 7uL and 100uL
- 1 x Wireless keyboard and mouse

## APPLICATIONS:

- ✓ **Milk Reception/Milk Collection Stations:** Results from individual cows, bulk tanks and/or tanker trucks are reliably and rapidly reported. Test results can be printed out (built-in printer) for suppliers. Easy to use, simple system (prepare sample, insert cartridge & push START - results are ready in <1 minute per test!)
- ✓ **Laboratory:** An exceptionally practical instrument for small and mid-sized labs, the LC-SCC features an impressive correlation with Direct Microscopic Somatic Cell Count. Choose between the budget-priced quick test (16 pictures) using a four channel cartridge or a more precise test (36 pictures) using two channel cartridges. Options for more in-depth analysis are also available.
- ✓ **Field Extension Services and Farm Level:** Herd management can be optimized by monitoring Somatic Cell Counts frequently for early intervention (also in cases of sub-clinical mastitis). Treatment can be closely monitored for timely and positive outcomes with potential cost savings.
- ✓ **Dairy Science Studies and R&D:** The digitized, visual image of somatic cells counted can be enhanced to assist in specific dairy studies. The precision and accuracy of the LactiCyte provide an excellent and affordable tool for introducing students to total somatic cell counting techniques. Results provide critical data in qualifying required quality parameters to preserve integrity of milk protein for nutritional benefits.



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