

LactiCyte™ HD Somatic Cell Counter



PRECISE SOMATIC CELL COUNT

- ✓ Rapid method (Test time < 1 minute)
- ✓ Accommodates raw & preserved milk
- ✓ Cow, Goat, Sheep & Buffalo
- ✓ Wide range (0.1 to 10,000,000 SCC/mL.)
- ✓ Wide screen, printout and USB Interface
- ✓ Customer defined thresholds
 - Warning Level
 - Critical Level

The new robust PC driven LactiCyte-HD provides rapid, accurate and affordable somatic cell counts for cow, goat, sheep and/or buffalo milk. The **LactiCyte-HD** covers a wide range (from 0.1 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 on-screen display, printout and USB 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™ HD Somatic Cell Counter

LactiCyte™ HD SCC Specifications:

Measuring Range	0.1 to 10,000,000 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)
Binding Sites 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	22 lbs (10 kgs)
Gross Weight	41 lbs (18.6 kgs)

*DMSCC = Direct Microscopic Somatic Cell Count

The LactiCyte-HD Start-Up Kit includes:

- 1 x LactiCyte-HD Somatic Cell Counter
- 1 x Mini Vortex Mixer
- 1 x AC power cords
- 1 x Comprehensive User's Guide
- 1 x Starter Kit with LactiChips/supplies for 100 tests
- 2 x Automatic Pippettes preset for 7uL and 100uL
- Sample vials and racks
- 1 x PC Monitor
- 1 x 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 LactiCyte-HD 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. See Advanced Mode.
- ✓ **Field Extension Services and Farm Level:** Optimize herd management by proactively (not reactively) monitoring SCC real-time to facilitate early intervention (also in cases of sub-clinical mastitis). See positive outcomes in herd health & milk quality while realizing cost savings. 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-HD provide an excellent and affordable tool for introducing students to total somatic cell counting techniques. Results provide critical data in qualifying required parameters to preserve integrity of milk protein for nutritional benefits and optimize onward manufacturing.



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