

*Automated microscope based on image cytometry with ultrafast
precise liquid autofocus and cell counting software*

MUCH MORE THAN A SIMPLE SOMATIC CELL COUNTER

Lactoscan Somatic Cell Counter

Embedded printer

7" fully functional
touch screen tablet

Test results within 20 to 60 seconds



Fast Autofocus

LACTOCHIP x4
Low cost per analysis

Store unlimited number of records in the database
Automatic software update and Remote service

Barcode scanner -
Easy sample data entry

Wireless keyboard
and mouse

**The world's
LOWEST PRICED
IMAGE FLUORESCENCE
CELL COUNTER**

SPECIFICATIONS

Analysis
time: < 1 minute

Capacity: > 60 tests per hour

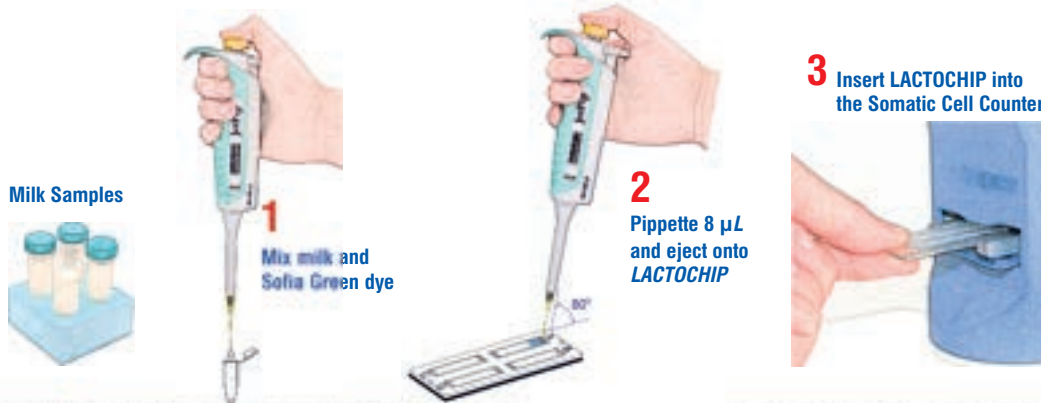
Measuring
range: 10 000 to 10 000 000 cell/mL

Deviation:	SCC (cell/mL)	CV%
	100 000	5%
	400 000	3%
	600 000	2%

New

**DETECTION OF
YEAST MASTITIS!**

Accurate Somatic Cell Counting in three simple steps:



KEY FEATURES:

- Simple in operation
- Fast somatic cell analysis
- Accurate and reliable results
- Portable and compact design
- Low maintenance cost
- One year full warranty

Results are color coded



! Clinical Mastitis	> 400 000 cell/mL
! Subclinical Mastitis	200 000 ÷ 400 000 cell/mL
Healthy	< 200 000 cell/mL
! Yeast mastitis	

LACTOSCAN SCC STARTER KIT



**THEWORLD'S
LOWEST COST
PER TEST OF IMAGE
FLUORESCENCE
SOMATIC
CELLS COUNT**

This project is
co-funded by the
European Union



**Improve your herd's
udder health**

**See with your eyes
what the others don't see**

ENVIRONMENTAL CONDITIONS:

Ambient temperature: 10 - 40 °C

Milk temperature: 1 - 40 °C

Relative humidity: 30 - 80 %

ELECTRICAL PARAMETERS:

AC voltage: 220V/110V

DC voltage: 12V, 5A

Power Consumption:

60W max

MECHANICAL PARAMETERS:

Dimensions

(W x D x H):

205 x 305 x 290 mm

Weight lower

than 9.0 kg

Stainless steel cover box

**Detects subclinical
and clinical mastitis in
single teat of the udder**



The iceberg of mastitis

**CLINICAL
MASTITIS**

**SUBCLINICAL
MASTITIS**

1 Clinical Mastitis
20 - 40 Subclinical Mastitis
120 Healthy

! Clinical Mastitis > 400 000 cell/mL
! Subclinical Mastitis 200 000 ÷ 400 000 cell/mL
Healthy < 200 000 cell/mL

CMOS camera
Ultrafast precise
liquid lens autofocus
Automated
microscope based
on image
cytometry



**Somatic
cell images**

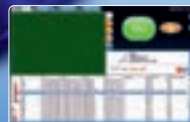


100 000 cell/mL

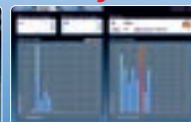


7 000 000 cell/mL

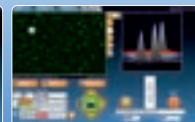
3 working modes



Main

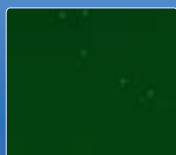


Graph

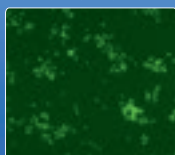


Advanced

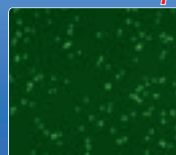
Indication of different mastitis and pathogens



Normal milk 100x10³ cell/mL



Staphylococcus mastitis



Streptococcus mastitis

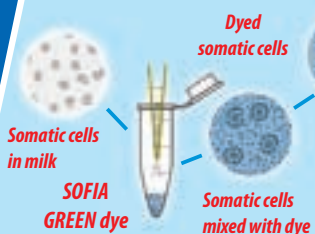


Yeast mastitis



Mycoplasma mastitis

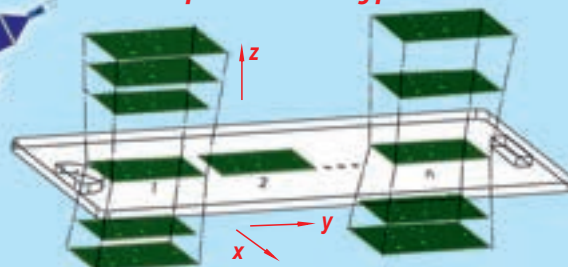
The Principle of LACTOSCAN SCC



**LACTOSCAN SCC takes
a maximum of 64 images,
equal to 10 µl and then processes
them by the analysis software**



**Unique, 3D, multi-image,
patent application protected,
sequential scanning process**



buy online at

www.lactoscan.com

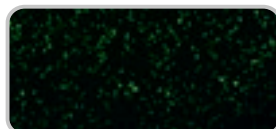


LACTOSCAN SCC

compared to

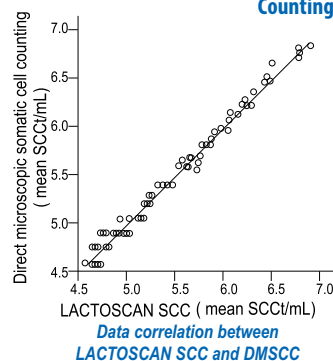
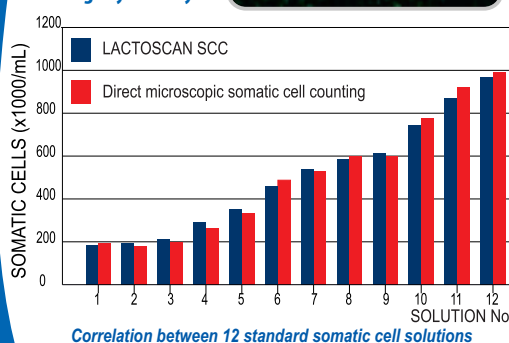
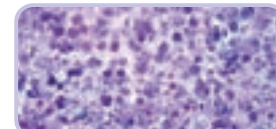
DMSCC

Automated
microscope
based on
image cytometry



Image

Direct
Microscopic
Somatic Cell
Counting



	LACTOSCAN SCC	DMSCC
SCC (cell/mL)	*CV %	*CV %
100 000	5 %	7 %
400 000	3 %	5 %
600 000	2 %	4 %

* Coefficient of Variation

Comparison of deviation

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