

ADAM **SCC2**
Automated Somatic Cell Counter

Better way to check **MILK QUALITY**

Less than
13_{sec}



NanoEnTek

Milk Quality Control with ADAM-SCC2

ADAM-SCC2 is an automated somatic cell counter integrated with fluorescence optic and image analysis software. ADAM-SCC2 counts the number of somatic cells to determine the quality of raw milk with unique image cytometer technology. ADAM-SCC2 can be used as an ideal equipment in the research field, dairy farms, milk manufacturing facilities, and veterinary institutes working with somatic cell analysis. It will be helpful to manage the milk quality to provide the best grade of milk.

Combined with a disposable microfluidic chip, the operation of ADAM-SCC2 is extremely simple, easy, and cost-effective. The microfluidic technology of disposable chip consumes less reagent and makes the milk quality control easy.

FAST

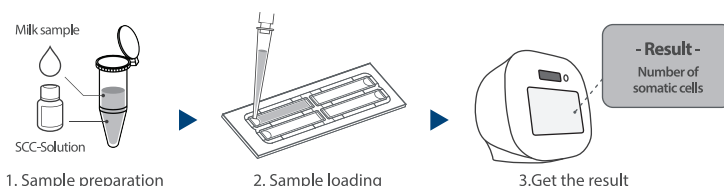
13
sec

- 01 High-speed measurement
- 02 Less than 13 seconds for a test (4 channel)
- 03 Up to 400 tests are available per kit (4 channel)

EASY

3
steps

- 01 Simple and easy to operate, even for the untrained operators



- 02 No need for calibration
- 03 Can be used without diluting raw milk
- 04 User-friendly interface with a touchscreen tablet computer

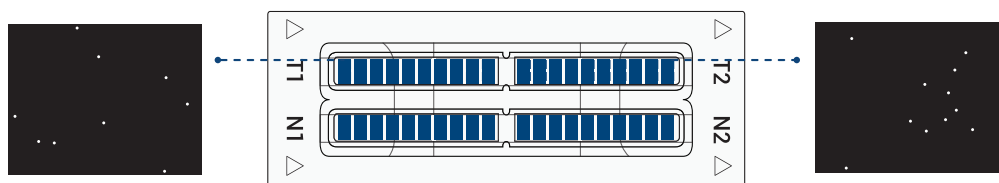
ACCURATE

0.99
R²

- 01 Substantially equivalent to the DMSCC (Direct Microscopic Somatic Cell Count)
- 02 Taking multiple images and averaging the values increase accuracy and reliability
- 03 Optimized image analysis software

Principle of Counting Somatic Cell

After the samples are stained with fluorescent dye, propidium iodide, which intercalates DNA to stain the nucleus of target cells, then simply drop the sample into a chip and slide it into ADAM-SCC2, then ADAM-SCC2 takes images automatically. The obtained images are processed by image analysis software to count the somatic cells. Multiple images are taken and their values are averaged out, so the result is accurate and reliable.

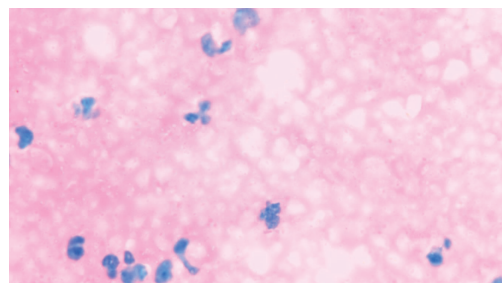


* There are two types of disposable chips: 2 channel and 4 channel.

Comparison of somatic cell image between ADAM-SCC2 and Direct Microscopic Somatic Cell Count



ADAM-SCC2



DMSCC X1000

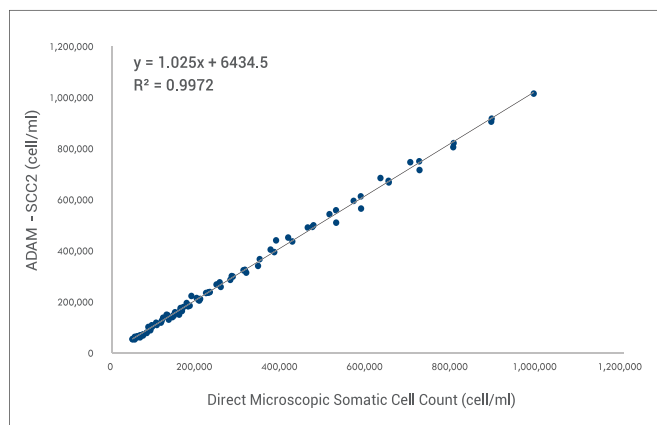
Repeatability

The data on the right shows that sample with low, medium, and high concentrations of cells were counted with ADAM-SCC2.

	High	Medium	Low
MEAN	600,000	400,000	100,000
CV	2%	3%	5%

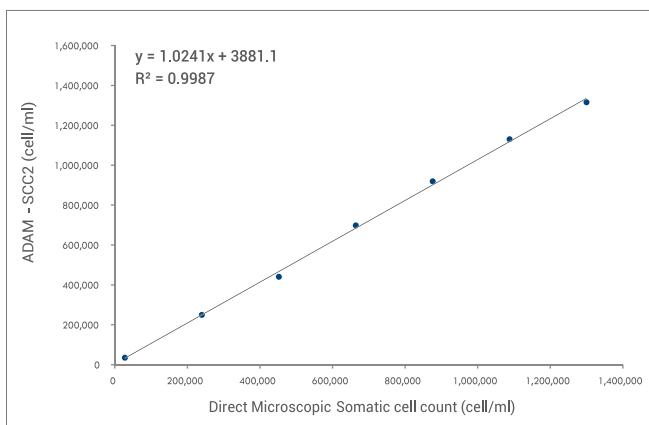
Accuracy

Comparison between ADAM-SCC2 and Direct Microscopic Somatic Cell Counting



Linearity

Comparison between ADAM-SCC2 and Direct Microscopic Somatic Cell Counting



Specifications

ADAM-SCC2

Cat No. ADAM-SCC2

Hardware	
Focus	Auto-focusing
LED	4W Green LED
Weight	7.0 kg
Size (LxWxH)	277 x 276 x 270mm



Somatic Cell Count Kit

Cat No. CRS-K01 (2 channel) | CRS-K02 (4 channel)

Performance	2 channel	4 channel
Analysis time	< 25 sec/test	< 13 sec/test
Loading volume	23 uL	13 uL
Measuring volume	8.6 uL	3.4 uL
Measurement range	0.05 ~ 1.15 X 10 ⁶ cells/mL	



Ordering Information

Catalog Number	Product Name
ADAM-SCC2	ADAM-SCC2
ADB-500	ADAM Calibration Bead

Catalog Number	Product Name
CRS-K01	SOMA chip 2x Kit (2 channel, 50 slides/kit)
CRS-K02	SOMA chip 4x Kit (4 channel, 100 slides/kit)

*CRS-K01 : please consult your distributor or manufacture for availability.