NanoEntek

» *CellT Plus*
For cGMP

» *MC Plus*
For R&D

ADAM™ MC Plus & CellT Plus

Most Accurate Fluorescence Cell Counter

PBMCs
Stem cells
Primary cells
Cell lines

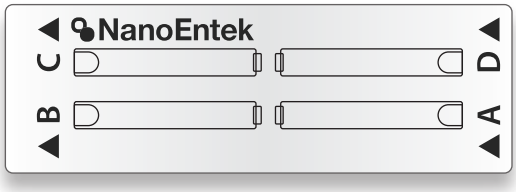
10 sec per test
15 µL sample loading volume
3.2 µL measuring volume
13 captured images per channel

ADAM™ MC Plus & CellT Plus are

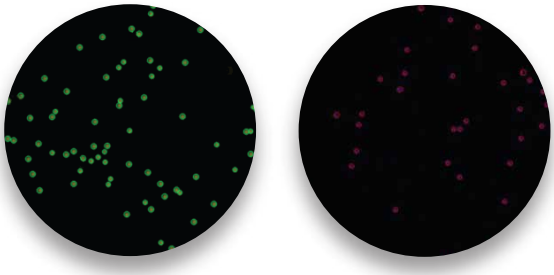
the highly accurate automated fluorescence cell counter equipped with bright field and two fluorescent channels (AO/DAPI).

ADAM™ MC Plus is used for R&D, ADAM™ CellT Plus is available in cGMP production environment.

4 tests on 1 slide



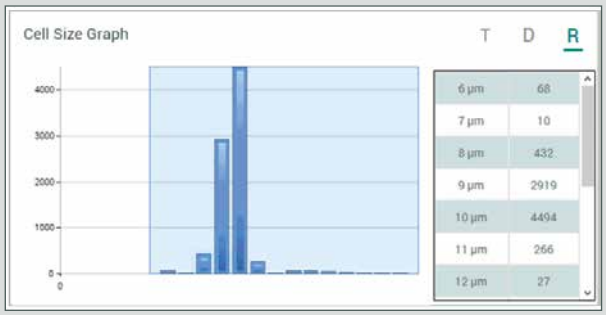
Bright field & Dual fluorescence (AO/DAPI)



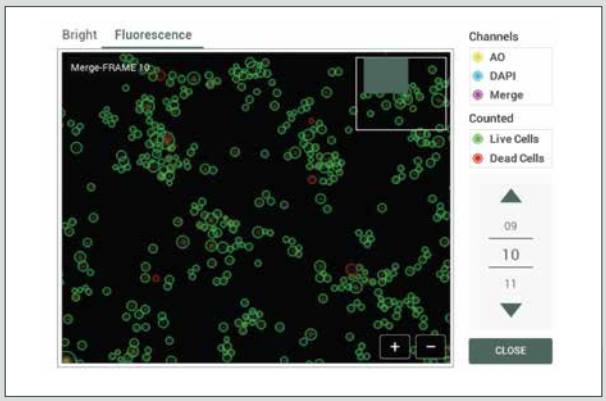
▲ AO (Live) ▲ DAPI (Dead)

ADAM™ MC Plus & CellT Plus

ADAM™ MC Plus & CellT Plus measures the number of total cells, viable cells, non-viable cells and shows viability results. In addition, they analyzes the cell size and cell aggregation ratio as well.



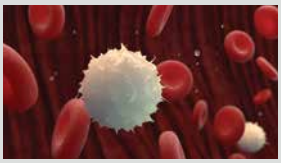
▲ Cell Size



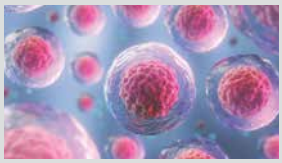
▲ Cell aggregation ratio (Aggregation 36.43%)

Applicable to a various cell lines

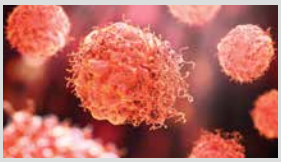
It is possible to use ADAM™ MC Plus & CellT Plus depending on the cell types (PBMCs, etc.) that needs to be monitored during the manufacturing of cell therapy products.



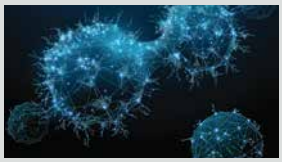
PBMCs



Stem cells



Primary cells



Cell lines

PBMCs
Clinical immunology

Stem cells
Regenerative medicine

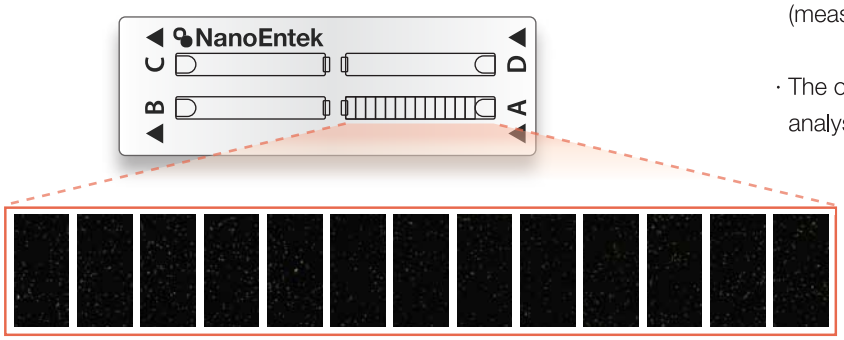
Primary cells/Cell lines
Basic research

Splenocytes
Vaccine development

Various applications

Large measuring volume

13 images
3.2 µL measuring volume



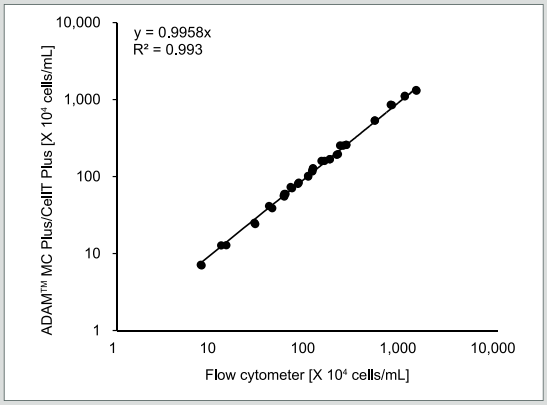
Large measurement volume obtained by detecting multiple images of the samples through moving stage provides more accurate results compared to other manufacturers' products.

· Cell counting accuracy depends on the counting volume (measurement volume).

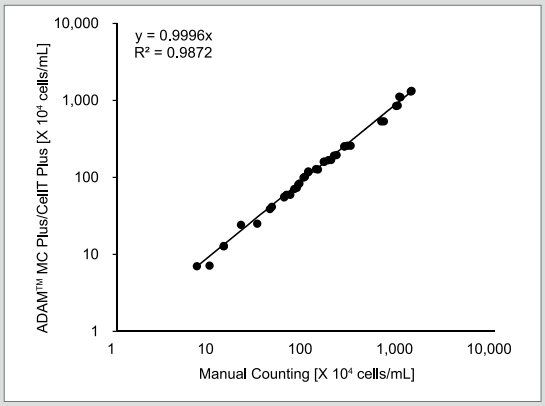
· The obtained multi-images are processed by image analysis software integrated inside the system.

Accuracy & Repeatability

Correlation of PBMCs total counting between flow cytometry, manual count and ADAM™ MC Plus & CellT Plus.

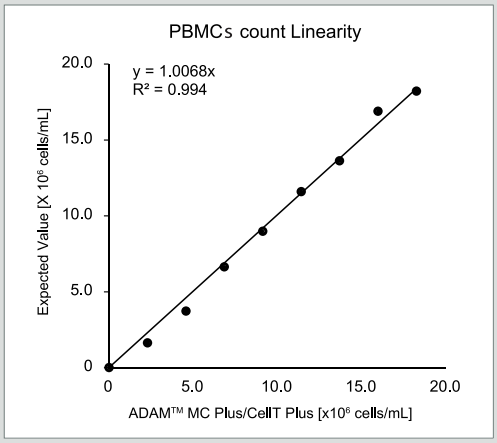


Data were compared between flow cytometer and ADAM™ MC Plus & CellT Plus results in 20 different PBMCs concentration samples.



Data were compared between manual count and ADAM™ MC Plus results in 20 different PBMCs concentration samples.

Linearity & Reproducibility



A high-concentration (1.8E+07cells/mL) of PBMCs was diluted and a dilution series was counted by ADAM™ MC Plus & CellT Plus. It shows excellent dilution linearity and reproducibility.

	High	Medium	Low
Mean	1.8.E+07	9.0.E+06	1.6.E+06
SD	2.7.E+05	2.3.E+05	3.8.E+04
CV (%)	1.5 %	2.5 %	2.3 %

Sample with low, medium and high concentration of PBMCs were counted with three ADAM™ MC Plus & CellT Plus.

Accurate result

Specifications

Scan me

ADAM™ MC Plus & CellT Plus

Hardware	
Measuring range	5×10^4 ~ 2×10^7 cells / mL
Optimal range	4×10^5 ~ 4×10^6 cells / mL
Analysis time	fast mode 10 sec / test real cell size mode 30 sec / test
Measuring volume	3.2 µL
Focus	Auto-focusing
Objective lens	4 X
Weight	7.0 kg
Dimensions (W × D × H)	277 x 276 x 270 mm

AccuPlus Slide & Reagent

Performance	
Staining method	Acridine orange (AO) & 4',6-diamidino-2-phenylindole (DAPI) stain
Sample loading volume	15 µL/test

Ordering Information

Cat. No.	Description	Contents
ADAM-MC Plus	Fluorescence cell analyzer	• Main device • User manual
ADAM-CellT Plus	Fluorescence cell analyzer for cGMP	• Main device • User manual • 21 CFR PART 11 requirement support appendix
APAD-400	Cell viability reagent	• 20 mL x 1 bottle
AP4S-100	AccuPlus Slide 4ch.	• 4ch. Slide 100 ea
APB-001	Test Beads	• 1 mL x 1 tube / pack
QCS-002	QC Slide	• 1 QC Slide / case • User manual

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