Specifications H





Hardware				
Measuring range	$5\times10^4 \sim 2\times10^7$ cells/mL			
Optimal range	$4\times10^5 \sim 1\times10^7$ 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 \times D \times 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 deviceUser 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	• 1 mL x 6 tubes (400 Tests)	
AP4S-100	AccuPlus Slide 4ch.	4ch. Slide 100 ea	

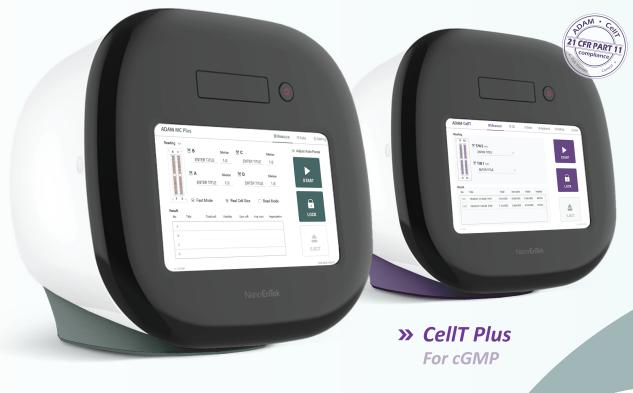
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FOR RESEARCH USE ONLY.
This product is not approved for diagnostic or therapeutic use.

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>> MC PlusFor R&D

ADAM™ MC Plus & CellT Plus

Most Accurate Fluorescence Cell Counter

PBMCs 10 sec per test

Stem cells

15 µL sample loading volume

3.2 µL measuring volume

Cell lines 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).

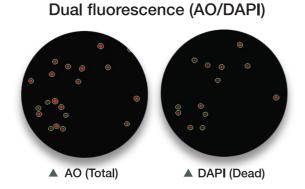
4 tests on 1 slide



Bright field &

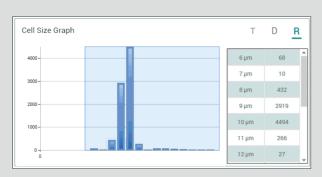
ADAM™ MC Plus is used for R&D, ADAM™ CellT

Plus is available in cGMP production environment.

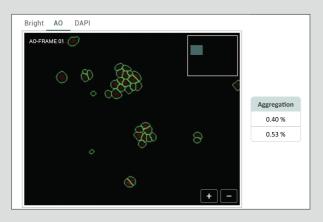


ADAM™ MC Plus & CellT Plus

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.



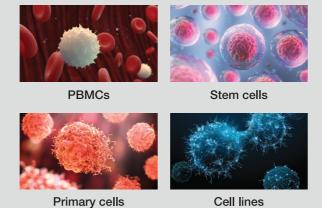
▲ Cell Size

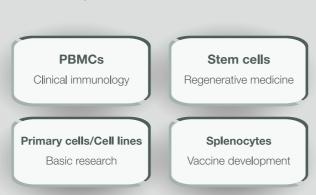


▲ Cell aggregation ratio

Applicable to a various cell lines

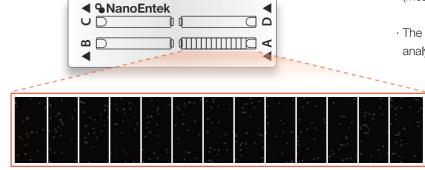
It is possible to use ADAM™ MC Plus & CellT Plus depending on the cell types (PBMCs, etc.) that needs to be monitored during the manufacturing of cell therapy products.





Large measuring volume

13 images 3.2 μL measuring volume

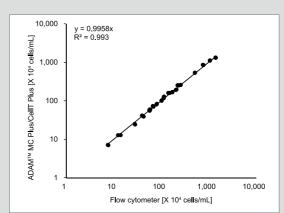


Large measurement volume obtained by detecting multiple images of the samples through moving stage provides more accurate results compared to other manufacturers' products.

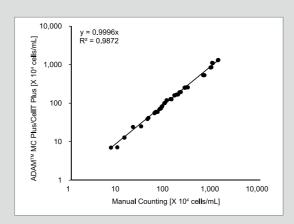
- · Cell counting accuracy depends on the counting volume (measurement volume).
- The obtained multi-images are processed by image analysis software integrated inside the system.

Accuracy & Repeatability

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

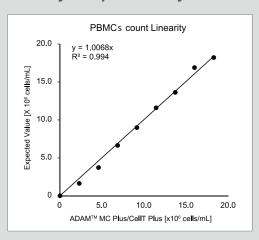


Data were compared between flow cytometer and ADAM™ MC Plus & CellT Plus results in 20 different PBMCs concentration samples.



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

Various applications