COUNT ACCURATELY AND ANALYZE EASILY AT YOUR BENCH

ADAMITM LS

IMAGE-BASED FLUORESCENCE CELL ANALYZER









ADAMII™ LS is a versatile image-based fluorescence cell analyzer developed for life science laboratories and industry. Users can perform various assays, including total cell count, viability measurement, cell-cycle assay, apoptosis assay and fluorescence expression. ADAMII™ LS shows high correlation with flow cytometer.



||||||||| KEY FEATURES & BENEFITS

- Accurate measurement (Capture up to 75 images)
- Versatile application
- Similar result to Flow cytometer (Histogram & Dot plot)
- Convenient usage (Easy & Simple process for assay)



ADAMII™ LS regulates electronic records and signature by only allowing specific user(s) to modify data. Every action of user is recorded in an audit trail, while date, time and specific details are displayed.

\\\\\\\\ Versatile application, convenient use, and accurate result

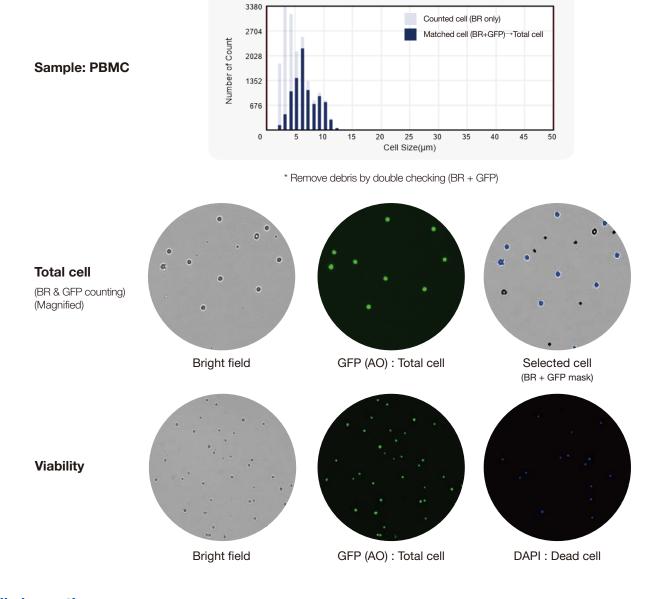
ADAMIITM LS is easy to set up and convenient. Users can analyze cells with ease, and without intensive training and effort. Everyone can run any cell-based assay with high accuracy and low variation (CV %).



\\\\\\\ ADAMII™ LS, Image-based fluorescence cell analyzer

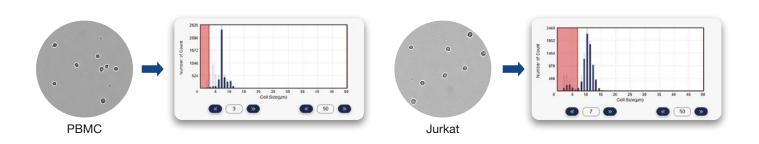
Total cell counting / Viability

In a PBMC sample containing RBC and platelets, only nucleated cells (lymphocyte) are counted through fluorescence staining. It shows better performance than the trypan blue staining method commonly used. By staining cells with reagent, the mixture of AO (Acridine Orange, cell permeable dye), and DAPI (impermeable DNA dye), and utilizing dyed fluorescence image, it measures total cell count and viability more accurately compared to the trypan blue staining mehtod.



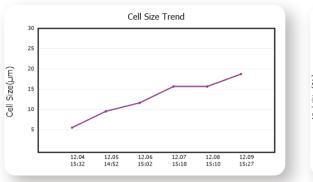
Cell size gating

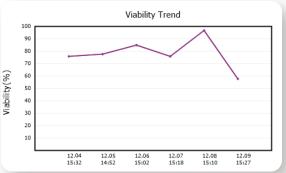
ADAMII™ LS provides accurate cell size data measured by 10 x lens. The photographed cells are analyzed according to their size and the results are presented in the form of a histogram. By performing cell size gating according to the size of each cell type, users can selectively obtain the accurate data and values of the desired cells.



Cell size & Viability trend curve

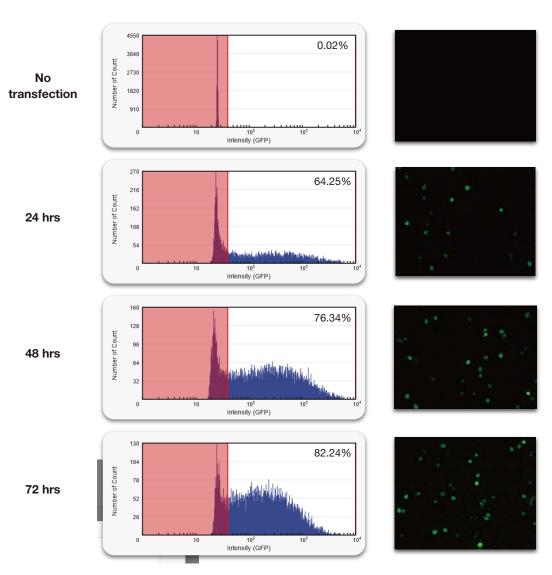
User can compare and monitor cell size or viability by selecting the desired datum of a specific period. These trends could be helpful to see cell behavior and to decide the optimal time point to harvest or treat.





Fluorescence expression

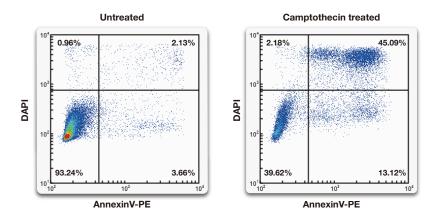
Through the dot plot of either a single channel result or double channel result, it is possible to measure various fluorescence reagents and cell samples desired by the user.



Hela cells transfected with GFP

Apoptosis

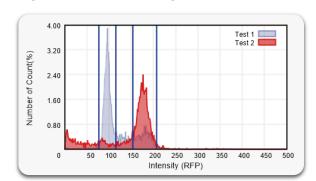
Apoptosis is programmed cell death which can be analyzed using Annexin V and DAPI reagent. Annexin V binds with phosphatidylamine on the plasma membranes. DAPI binds with DNA in the cells. Through two fluorophores, early and late apoptotic cells are detected with the dot plot.



Jurkat cells treated with Camptothecin

Cell cycle

ADAMIITM LS uses PI cell cycle reagent for cell cycle assay. It generates cell cycle histogram which is similar to flow cytometer (FACS), and cell cycle comparison report, which enables to compare the change of cell cycle between control group and experimental group.



Test 1		Test 2		
Conc. (cells/mL)	%cells	Conc. (cells/mL)	%cells	
9.39 x 10E5		8.36 x 10E5		
5.47 x 10E5	58.30 %	6.62 x 10E4	7.92 %	
1.42 x 10E5	15.11 %	7.59 x 10E4	9.08 %	
2.08 x 10E5	22.19 %	5.10 x 10E5	61.03 %	
	Conc. (cells/mL) 9.39 x 10E5 5.47 x 10E5 1.42 x 10E5	Conc. (cells/mL) %cells 9.39 x 10E5 5.47 x 10E5 58.30 % 1.42 x 10E5 15.11 %	Conc. (cells/mL) %cells Conc. (cells/mL) 9.39 x 10E5 8.36 x 10E5 5.47 x 10E5 58.30 % 6.62 x 10E4 1.42 x 10E5 15.11 % 7.59 x 10E4	

Jurkat cells treated with Epothilone B

Specification

Ordering information

Item	Description	Cat. No.	Product	Contents
Lens	10 x	ADAMII-LS	Image-based fluorescence cell analyzer	Main instrument, Labtop
Light source	Bright field, UV, Blue, Green LED		Cell viability reagent	Acridine orange (AO) 4',6-diamidino-2-phenylindole (DAPI) stair 0.5 mL x 2 tubes (100 Tests)
Analysis time	App. 2 min ~ 4 min 30 sec *	ALAD-100		
Loading volume	25 µL	ALPI-100	PI cell cycle reagent	Propidium lodide (PI) stain: 1.25 mL x 2 tubes (100 Tests)
Measuring volume	≤ 7.8 µL			
Measurement range	5 x 10E4 ~ 5 x 10E6 cells/mL		Apoptosis detection kit	 AnnexinV-PE stain 0.5 mL x 1 tube (100 Tests) DAPI solution: 125 μL x 1 tube (100 Tests) AnnexinV binding buffer 10 mL x 1 tube (100 tests)
Dimension	300 mm (W) x 420 mm (D) x 370 mm (H)	ALAP-100		
Weight	19.3 kg			
	* Depends on assay or frame.	A2AS-051	ADAMII Assay slide	• 1 ch x 50 slides/ case

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