

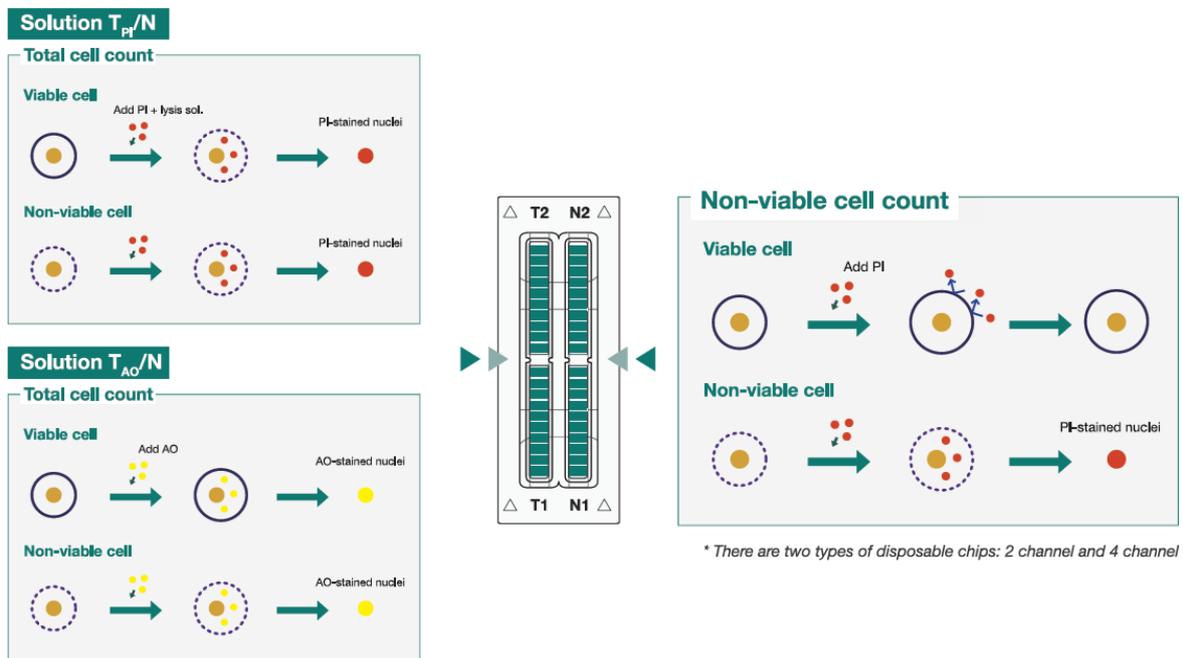
ADAM-MC2, ADAM-CellIT

Automated fluorescence cell counter

ADAM-MC2, versatile automated fluorescence cell counter, allows users to perform assays for cells including cell counting and viability. There are two methods of viability measurement. After the samples are stained with fluorescent dye, propidium iodide (PI) or acridine orange (AO), which intercalates DNA to stain the nucleus of target cells, ADAM-MC2 takes fluorescent images automatically.

ADAM-CellIT with the same H/W as ADAM-MC2 complies 21 CFR part 11 which is a regulation about electronic records and signatures for use in cGMP facilities.

Principle of Viability Measurement (AO, PI-Staining Method)



- After the samples are stained with fluorescent dye, propidium iodide, which intercalates DNA to stain the nucleus of target cells, ADAM-MC2 takes fluorescent images automatically.
- For R&D, Process control, Quality control of CAR-T cell using ADAM-MC2, ADAM-CellIT

Specification

| Specification | ADAM-MC2 & CellIT |
|----------------------|---|
| Loading Vol | 13 µL (4 ch) |
| Measurement Vol | 3.4 µL (4 ch) |
| Measurement range | 5x10 ⁴ ~4x10 ⁶ cells/mL (PI) 5x10 ⁴ ~2x10 ⁷ cells/mL (AO/PI) |
| Optics | 4 X |
| Analysis time | 25 sec / test (4 ch) |
| GMP & 21 CFR Part 11 | ADAM-CellIT (only) |

ADAM CellIT ADAM MC2



ADAMII-LS

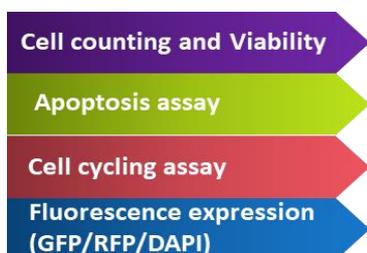
Fluorescence cell analyzer with open tool system

ADAMII-LS, versatile fluorescence cell analyzer based on 4-channel (bright field, UV LED, blue LED, green LED) for life science laboratory, allows users to perform lots of assays for cells including cell counting (total & nucleus), viability, apoptosis, cell cycle, fluorescence expression with open tool system and similarity to FACS.

Advantages

Versatility (major functions)

- Compatible with a wide variety of eukaryotic cells



High-quality cell analysis

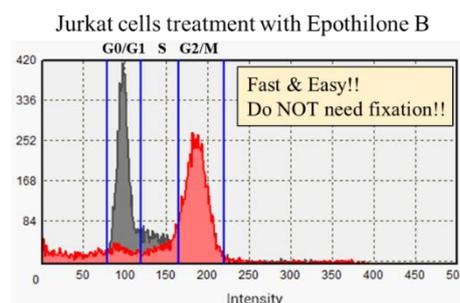
- Performs 4-channel (bright field, UV, blue, and green LED)
- Result with histograms and select cell size gating

Open tool system

- Possibility to apply with other reagents in the right wavelength
- Fluorescence expression (GFP, RFP, DAPI)
- Nucleus counting (GFP, RFP, DAPI)

Similarity to FACS

- Dot plot, Easy GUI, report format, and compatibility with FCS file
- No need for system maintenance



ADAMII-LS specification

| Optic channel | BR (Bright field) channel | FL (Fluorescence) channel 1 | FL channel 2 | FL channel 3 |
|---------------|---------------------------|-----------------------------|--------------|----------------|
| Channel | BR | DAPI | GFP | RFP |
| Light source | Green LED (up-light) | UV LED | Blue LED | Green LED |
| Excitation | - | FF01-390/40 | FF01-466/40 | FF01-543/22-25 |
| Dichroic | FF495-Di03 | Di02-R405 | FF495-Di03 | FF580-FDi01 |
| Emission | FF01-525/50 | FF01-452/45 | FF01-525/50 | BLP01-561R |

ADAMII -CDx

All-in-one system for cell therapy
(R&D and QC Process)

ADAMII-CDx, all-in-one system with 4-channel (Bright field and 3 fluorescent channels) for cell therapy R&D and manufacturing process.

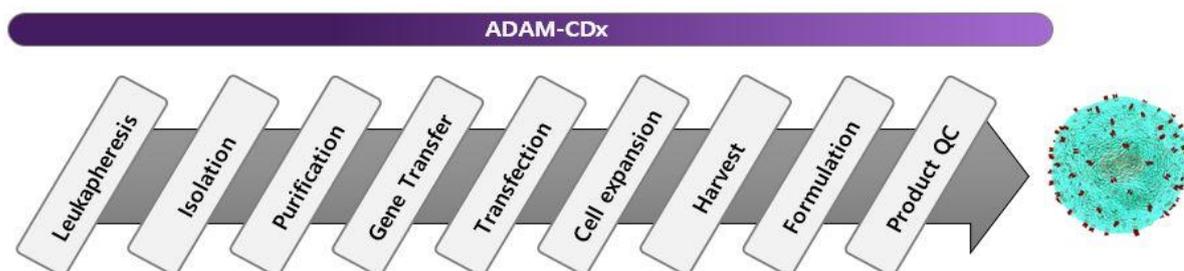
Advantages

Target cell

- Immune cell, CAR-T cell, NK cell
- Mammalian cell, Primary cell, Cell line
- Stem cells, PBMCs

High-quality All-in-one system

- Absolute counting of CD (cluster of differentiation) marker positive cells
- Total cell counting (BF, FL), viability, cell growth curve, apoptosis, transfection efficiency



ADAMII-CDx specification

| FL channel | BR (Bright Field) channel | FL (Fluorescence) channel 1 | FL (Fluorescence) channel 2 | FL (Fluorescence) channel 3 |
|--------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dye | BR | BV510 | PE | PerCP |
| Light source | Green LED (up-light) | 405 (UV LED) | 525 (Green) | 525 (Green) |
| Excitation | - | 390/40 | 510/42 | 525/50 |
| Emission | 572/28 | 525/50 | 572/28 | BLP01-635R |

CD marker panel list (the panel will be expanded as user requirement.)

| | | | | |
|-------------------|--|-----|---------|-------------|
| Panel 1 (T cell) | | CD4 | CD8 | CD3 |
| Panel 2 (B cell) | | CD3 | CD19 | CD45 (CD14) |
| Panel 3 (NK cell) | | CD3 | CD56&16 | CD45 |