



**BriCyte E6** NEW  
Flow Cytometer



A Bright Cytometer Easy to use

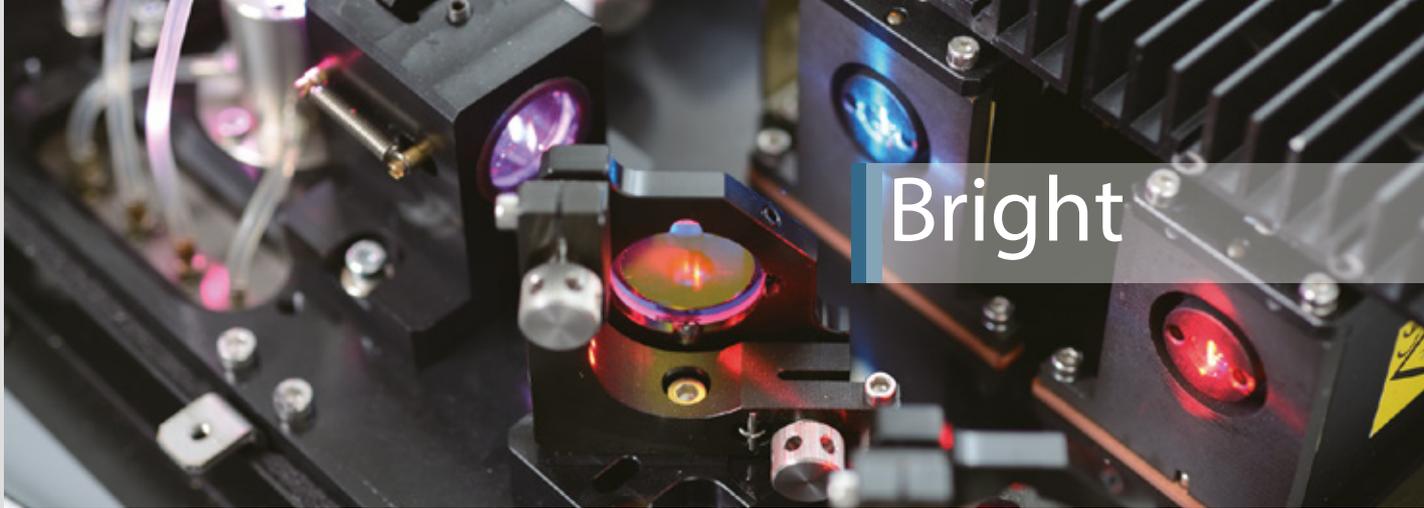
**mindray**  
healthcare within reach

# BriCyte E6

## Flow Cytometer

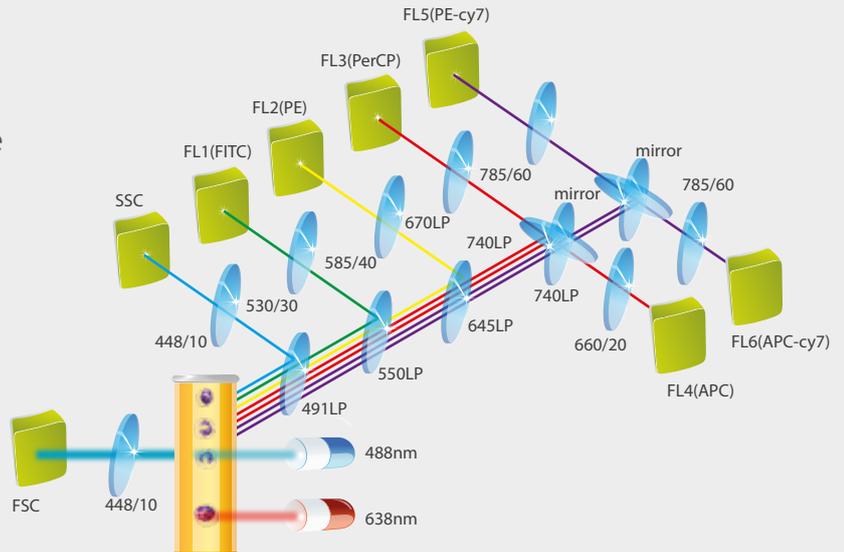
Flow cytometer is an essential tool to analyze cells, so it's used for diagnosis as well as research in laboratories worldwide. However, many laboratories couldn't have a flow cytometer because of the high costs. A more compact, intelligent, higher performance, simpler and, most importantly, more accessible flow cytometer is urgently needed. Now, the Mindray BriCyte E6 comes to meet that need.





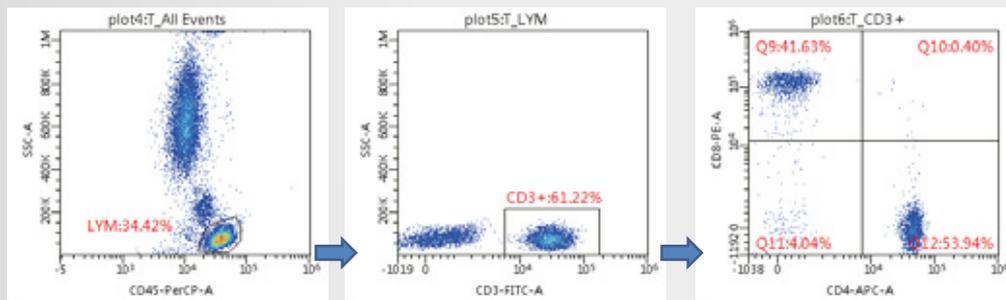
Bright

BriCyte E6 is equipped with dual-laser based optics. A red diode laser and a blue diode laser are used for exciting 4 to 6 colors of fluorescence lights. The optics are designed with state-of-the-art technology to ensure higher sensitivity for a better identification of cellular populations.



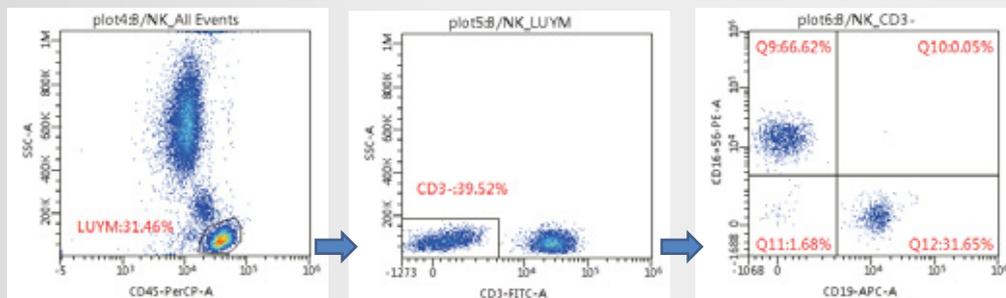
## T Lymphocyte subsets

PerCP-CD45 / FITC-CD3 / APC-CD4 / PE-CD8



## B & NK Lymphocyte subsets

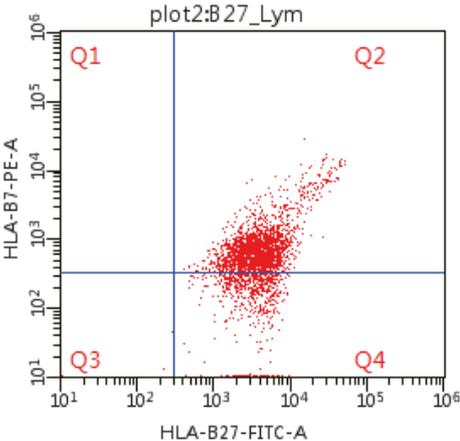
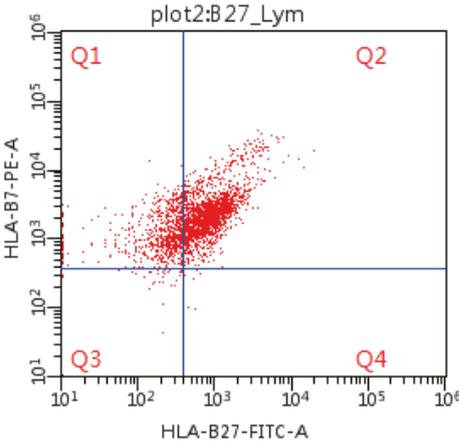
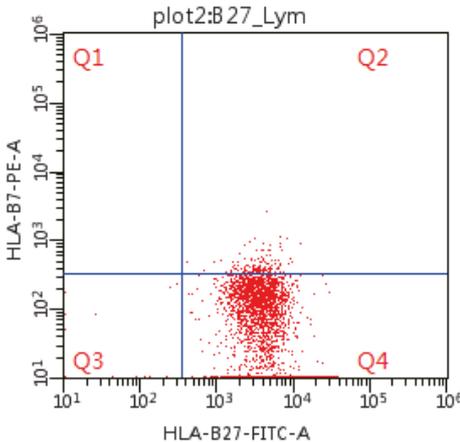
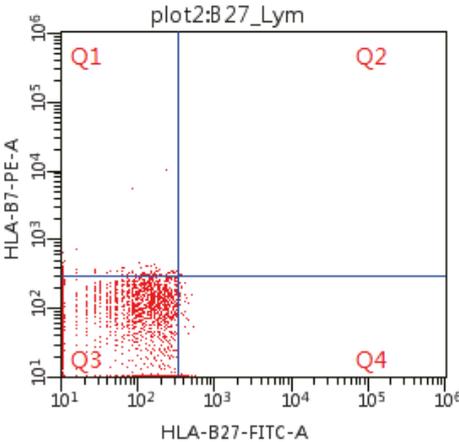
PerCP-CD45 / FITC-CD3 / APC-CD19 / PE-CD16+56



# HLA-B27 Antigen

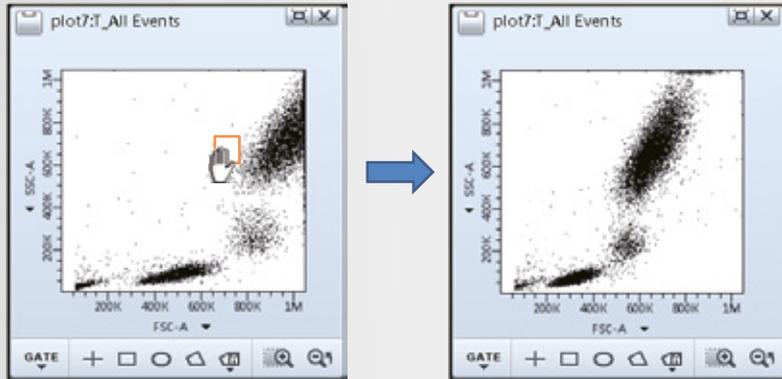
FITC-HLA-B27/PE-HLA-B7

FITC-IgG2a/PE-IgG1



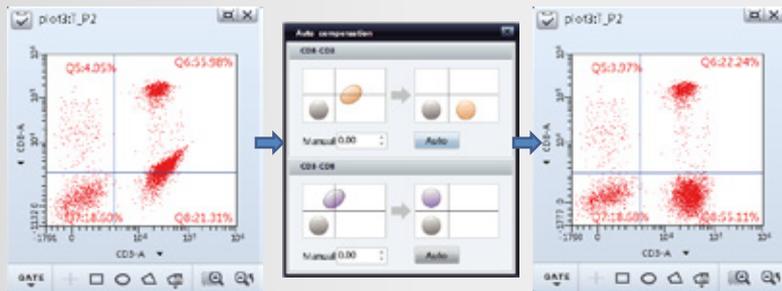
All data was tested by Mindray lymphocyte-subset as well as HLA-B27 reagent kits.

## Convenient voltage adjusting



The voltage of BriCyte E6 could be adjusted and optimized conveniently by easily dragging the “hand” on the plot.

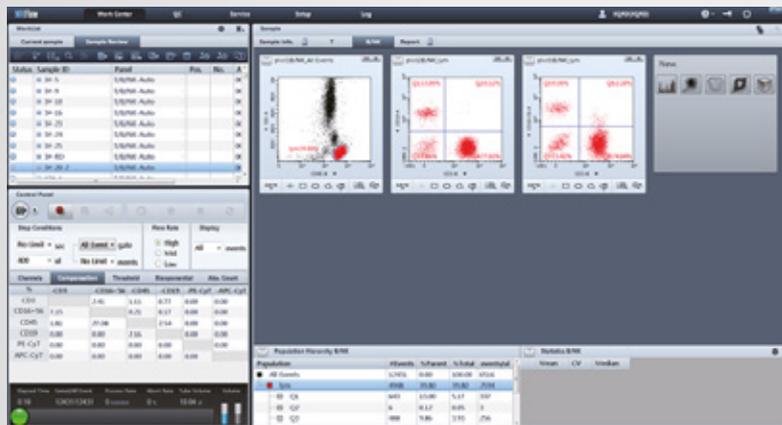
## Automatic compensating



BriCyte E6 can perform automatic compensation by one simple click of the built-in intelligent template.

## Automatic gating, analyzing & reporting

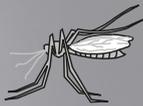
CD3-FITC/CD16+56-PE/CD45-PerCP/CD19-APC



BriCyte E6 can gate the populations of cells by the built-in algorithms, then it analyzes the data and reports the results automatically. Currently this feature is for Mindray reagents only.



The microfluidic detector is an advanced technology of BriCyte E6. With the microfluidic detector, BriCyte E6 can count the absolute number of cells for every sample without extra beads that can reduce the running cost of BriCyte E6.



The microfluidic detector is able to detect the micro fluid flow accurately as less as a mosquito bite



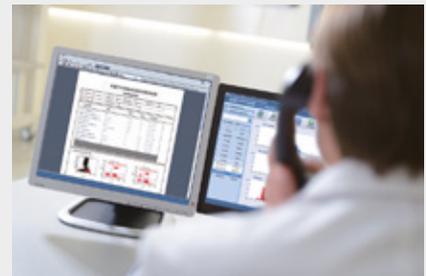
The sheath fluid and waste could be placed on the weight sensors which are able to measure the residual volume of reagents. With such design, the BriCyte E6 can sound an alarm before the reagents run out to minimize the dead volume.



BriCyte E6 has open mode which suits the labs which have less number of samples, the micro sample tubes are supported as well. The carousel mode is yet another option which can handle 40 sample tubes at one time.



In the carousel mode, single sample tube can also be loaded as STAT after opening the cap of carousel.



All information, including sample results as well as patient information, could be transmitted bi-directionally between BriCyte E6 and the Laboratory's LIS.



The maintenance is easy as well. The users just need to aspirate the diluted cleaning solution through the sample probe once per day, then BriCyte E6 will clean the whole system automatically, in several minutes.

# BriCyte E6

## Flow Cytometer

### Technical Specifications

#### Lasers

Blue solid state diode (488nm, 43mW), Red solid state diode (638nm, 55mW)

#### Detectors

FSC, SSC, FITC, PE, PerCP/PerCP-Cy5 or ECD/PI, APC, PE-Cy7, APC-Cy7

#### Configurations

2 lasers, 4 colors (FITC, PE, PerCP/PerCP-Cy5 or ECD/PI, APC)

2 lasers, 5 colors (FITC, PE, PerCP/PerCP-Cy5 or ECD/PI, APC, PE-Cy7)

2 lasers, 6 colors (FITC, PE, PerCP/PerCP-Cy5 or ECD/PI, APC, PE-Cy7, APC-Cy7)

Need to change filter if use ECD/PI to replace PerCP/PerCP-Cy5

#### Fluorescence sensitivity

PE<100 MESF, FITC<200 MESF

#### Fluorescence precision

FSC≤2.0%, FITC, PE≤2.0%, PerCP, PE-Cy7, APC, APC-Cy7≤4.0%

#### Scatter resolution

FSC≤1.0 μm, SSC≤0.5 μm

#### Maximum acquisition rate

12,000 events per second

#### Throughput

Up to 90 tubes per hour

#### Loading mode

Open mode & Carrousel mode (40 sample tube positions)

#### Flow rate

10μL sample per minute (low)

50μL sample per minute (medium)

100μL sample per minute (high)

#### Sample carryover

≤0.1%

#### Size of detecting capability

0.5-50μm

#### Minimum sample volume

100μL



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