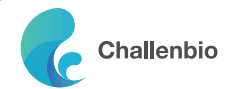


About Us

Beijing Challen Biotechnology Co., Ltd., located in Zhongguancun Science and Technology Park Biological Pharmaceutical Industry Base, Daxing District, Beijing, is a technology company specializing in the R&D, production and sales of biomedical technology products. Challen Biotechnology is committed to providing users with excellent one-stop services of flow cytometry (FCM), instruments and reagents. At present, its products mainly cover MateCyte™ and LongCyte™ FCM series, as well as auxiliary diagnostic reagent and automatic sample preparation instruments. There are nearly 300 users in China. Challen Biotechnology also provides solutions for clinical diagnosis, biotherapy, basic biomedical research, drug R&D, environmental materials, food toxicity monitoring, etc.



Trustworthy FCM Partner

Enterprise Culture

Mission: providing excellent products and services and letting our users satisfied, employees grow and itself develop and trustworthy!

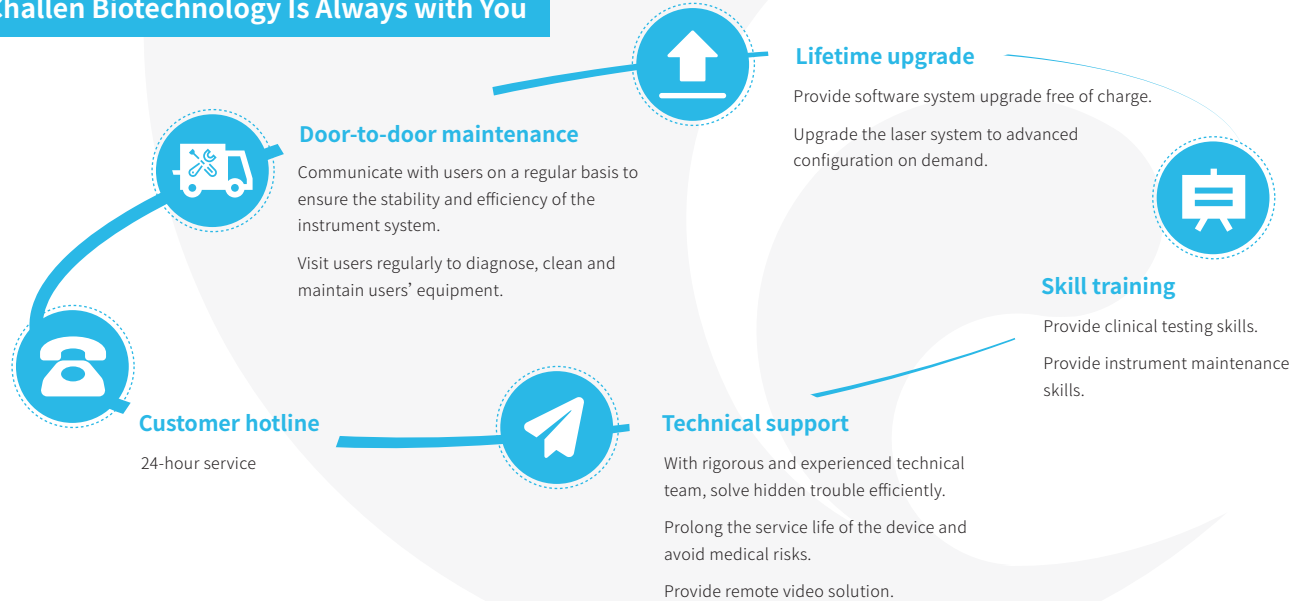
Vision: to be a great global company supplying biomedical service!

Values: Be great, striving, cooperation and win-win!

LongCyte™ Series 3-Laser 14-Color Flow Cytometer

After-sales Services

Challen Biotechnology Is Always with You



Follow the official WeChat account

Beijing Challen Biotechnology Co., Ltd.

1# building, No. 25, Yongxing Road, Zhongguancun Science and Technology Park Daxing Biological Pharmaceutical Industry Base, Daxing District, Beijing


Website: www.challenbio.com

Email: sale@challenbio.com

CE CERTIFICATION

Colorful World
Beautiful Life

Five Features of LongCyte™ Flow Cytometer



SUPERIOR
3-laser, 14-color, 16-channel, up to 26 optical configurations
Configured with autoloader for free

STABLE
Semiconductor laser, optical fiber conduction
constant temperature control
Excellent stability of optical structure

SPECIAL
Absolute counting by volumetric method
Patented sampling probe mixing function
Embedded cytokine analysis function,
no need of third-party software

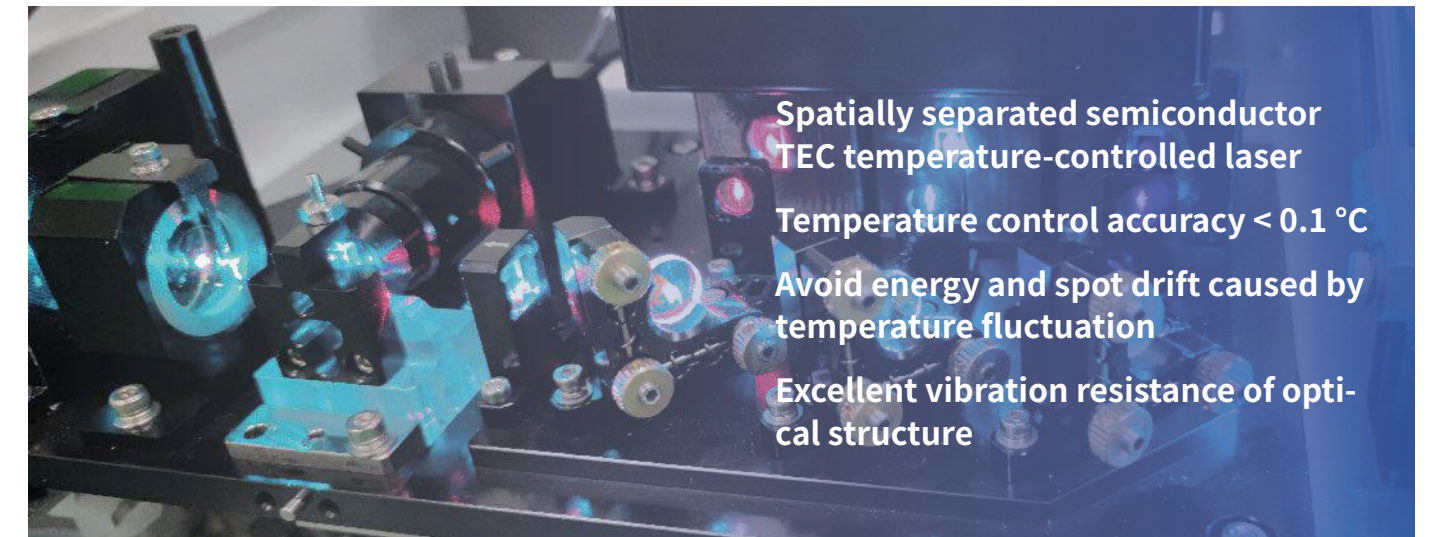
SMART
Automatic quality control for monitoring instrument status
Detailed and comprehensive fault monitoring and alarm function
Fast / automatic fluorescence compensation
One-touch startup/shutdown

SMALL
Compact structure and low running noise suitable for various
experimental environments
Patented magnetic rack that saves space

LongCyte™ Performance

INDEX	ILLUSTRATE
Forward scatter (FSC) and side scatter (SSC) resolution	FSC resolution: 500 nm SSC resolution: 200 nm Optimize for resolving the white blood cell subsets (lymphocytes, monocytes, and granulocytes), red blood cells and platelets.
Fluid capacity	Standard 5 L tanks
Automated maintenance cycles	Startup (initialization), sample mixing, priming, shutdown (daily cleaning), deep cleaning.
Autoloader	Tube racks and 96-well plates supported 40-tube rack (12 x 75-mm tubes / 1.5 mL and 2 mL microcentrifuge) 96-well plates, standard height / half deep/deep, with U/V/flat shape bottom.
Power specifications	Voltage: 100-240 V, power: 160W
Dimensions (W x D x H)	Cytometer: 39 cm x 43 cm x 43 cm
Weight	Cytometer: 30 kg

High-performance Design Features of LongCyte™ - Optics



3-laser, 14-color, 16-channel, up to 26 optical configurations

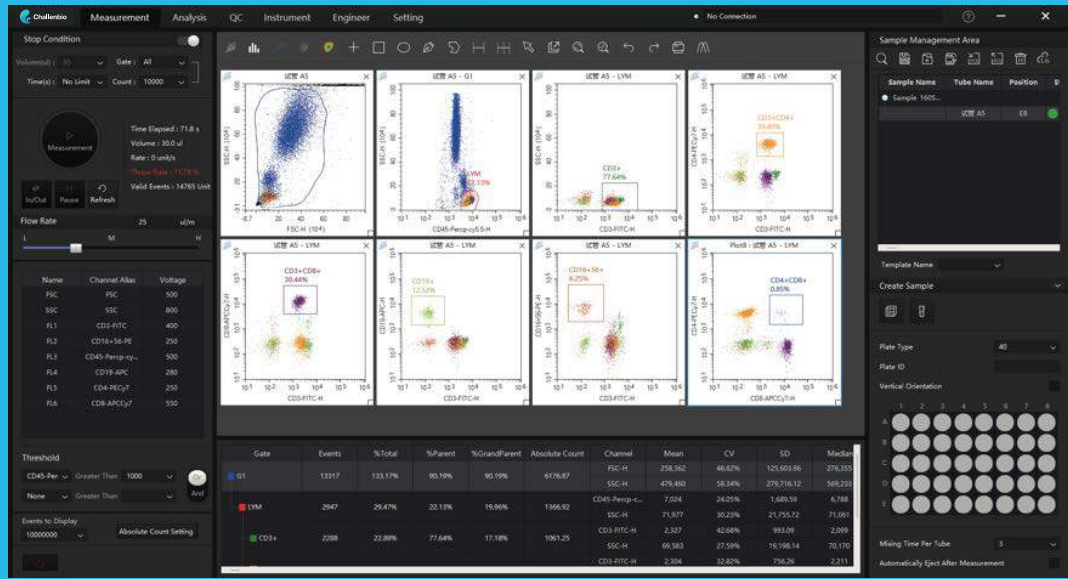
Channel Model	Blue Laser Channels 488 nm Laser					Red Laser Channels 638nm laser			Violet Laser Channels 405nm laser					
	BL1	BL2	BL3	BL4	BL5	RL1	RL2	RL3	VL1	VL2	VL3	VL4	VL5	VL6
C1040	✓	✓		✓	✓									
C1050	✓	✓	✓	✓	✓									
C2040	✓	✓		✓		✓								
C2041	✓	✓				✓		✓						
C2042	✓	✓							✓	✓				
C2050	✓	✓		✓		✓		✓						
C2060	✓	✓		✓	✓	✓		✓						
C2061	✓	✓		✓					✓	✓	✓			
C2080	✓	✓	✓	✓	✓	✓	✓	✓						
C2081	✓	✓		✓	✓				✓	✓	✓	✓		
C2082	✓	✓	✓	✓	✓				✓	✓	✓			
C2090	✓	✓		✓	✓				✓	✓	✓	✓		✓
C2100	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓
C2110	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓
C3080	✓	✓		✓	✓	✓		✓	✓	✓				
C3090	✓	✓		✓	✓	✓		✓	✓	✓	✓			
C3100	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			
C3101	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
C3110	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
C3111	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓
C3112	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓
C3130	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
C3131	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
C3132	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C3133	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
C3140	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Fluorescent configurations in various channels of LongCyte™

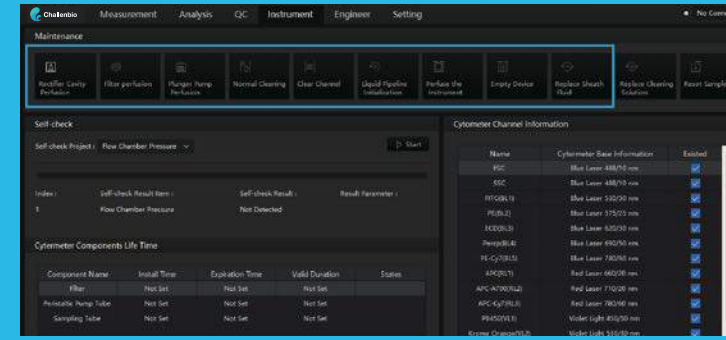
Laser	Channel	Dyes
488nm	BL1 530/30	FITC, Alexa Fluor 488, CFSE, Fluo-3 PE, PI ECD, PE-Texas Red, PE-CF594, PI PerCP, PC5, PC5.5, PerCP-Cy5.5, PI PE-Cy7
	BL2 577/25	
	BL3 620/30	
	BL4 690/50	
	BL5 780/60	
638nm	RL1 660/20	APC, Alexa Fluor 647, eFluor 660 APC-Alexa Fluor 700, Alexa Fluor 700 APC-Cy7, APC-Alexa Fluor 750, APC-H7, APC-eFluor 780
	RL2 710/20	
	RL3 780/60	
405nm	VL1 450/50	Pacific Blue, V450, eFluor 450, BV421 Krome Orange, AmCyan, V500, BV510 Violet610, BV605, Qdot 605 Violet660, BV650, Qdot 655 BV711, Qdot 705 Violet780, BV785, Qdot800
	VL2 530/30	
	VL3 610/20	
	VL4 660/20	
	VL5 710/50	
	VL6 780/60	

LongCyte™ ModelFlow Analysis Software

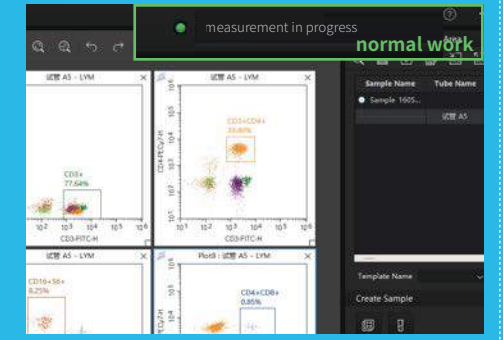
Free use of English or Chinese software UI



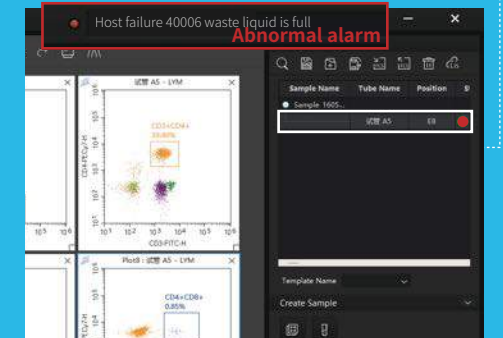
One-touch maintenance
Cleaning - degassing - degassing - priming easily



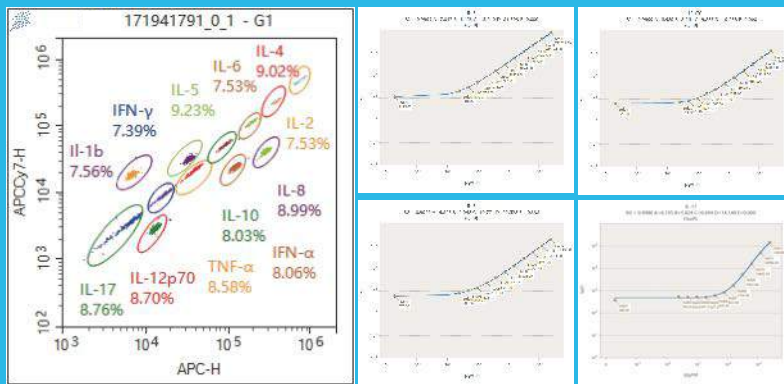
Automatic quality control for monitoring instrument status



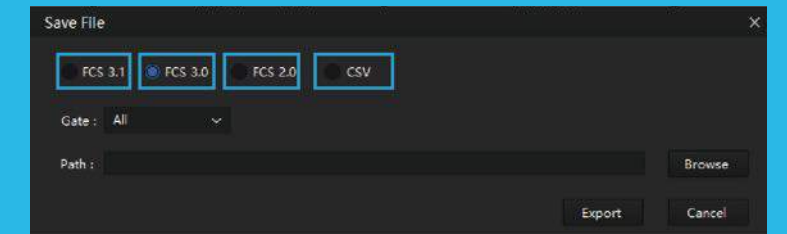
Detailed and comprehensive fault monitoring and alarm function
Intelligent identification of probe clogging, sample exhaustion, sampling probe striking and other fault.



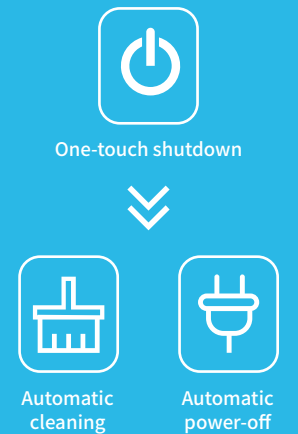
Embedded cytokine analysis function, no need of third-party software



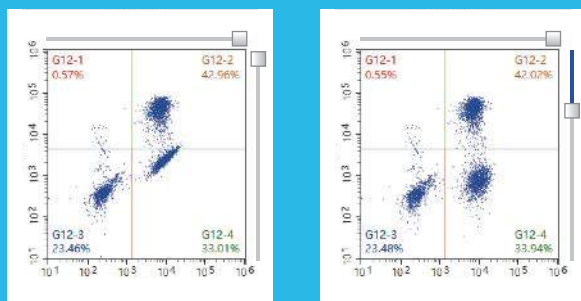
Quickly import and export data in batches and save files, suitable for a variety of analysis software



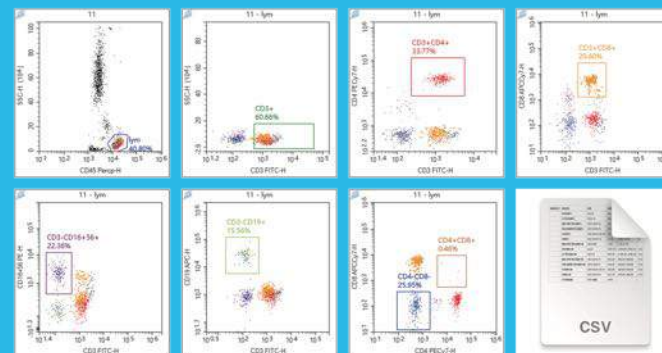
One-touch shutdown, automatic cleaning, automatic power-off, needless to wait



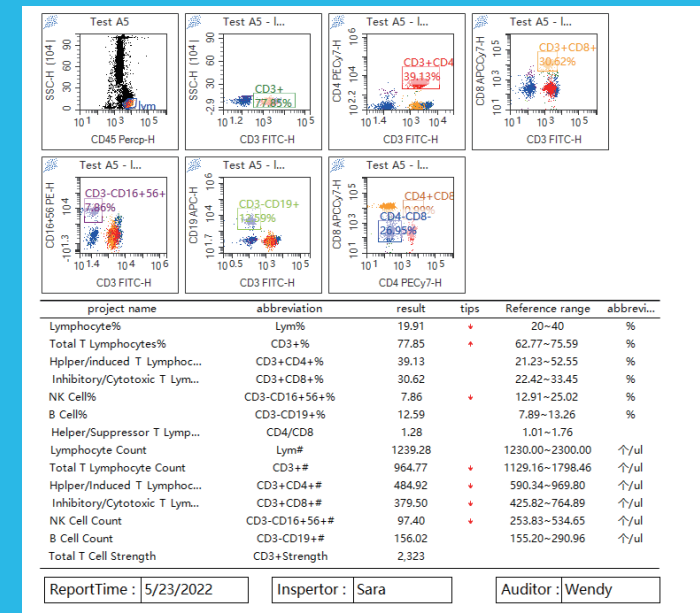
Fast/automatic fluorescence compensation



Flexible configuration of LIS export content format

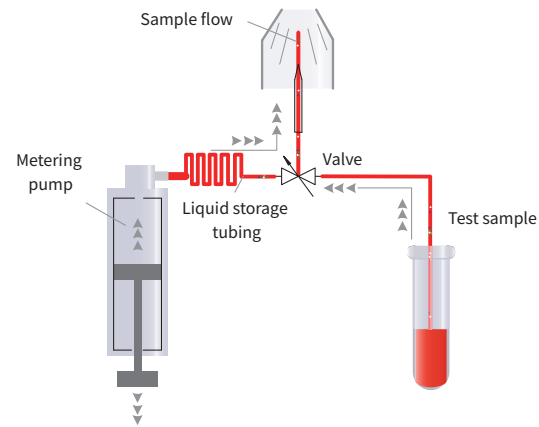


The software enables direct output of the diagnosis report, free edition of its content, and provision of customized design for it.



High-performance Design Features of LongCyte™ - Fluidics

Absolute counting by volumetric method



Adopt high-precision metering pump without worry about clogging

Trucount test compatible

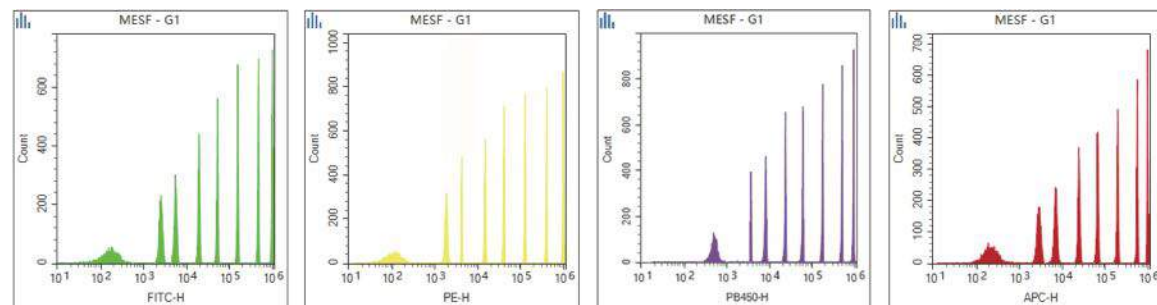


Patented magnetic rack, simple and practical

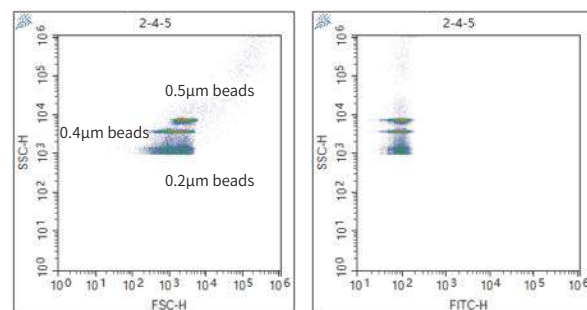
Superior detection performance of LongCyte™

Superior sensitivity

The detection results of eight-peak rainbow particles in each detection channel are not only excellent in common detection channels, but also outstanding in violet and far-infrared channels.



Detection of extremely small particles

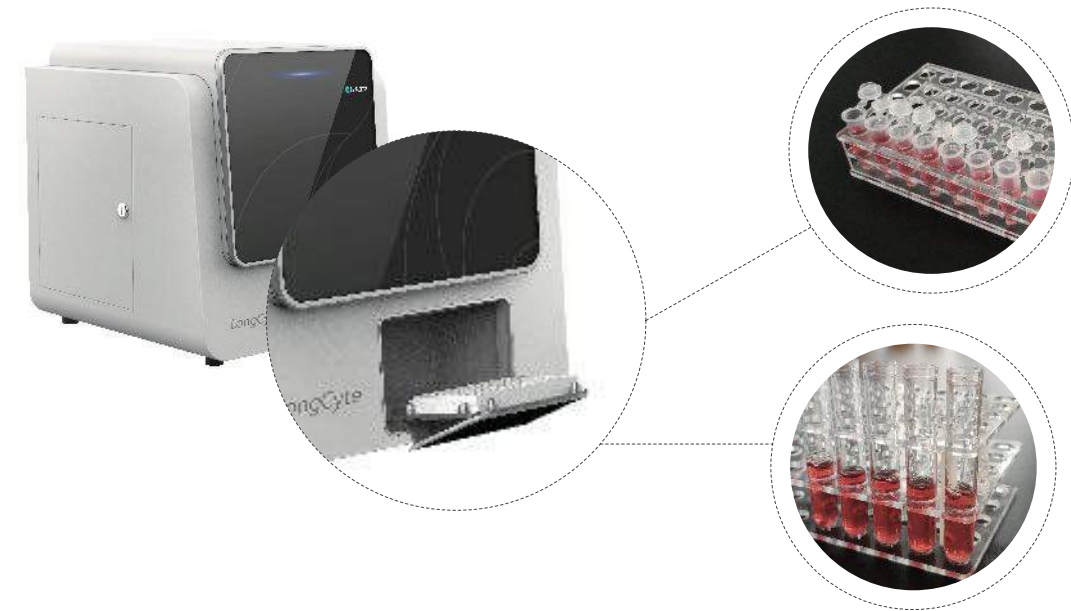


The FSC and SSC parameters are used to distinguish particles of different sizes. 0.2 µm particles can be monitored with SSC signal, and 0.4 µm and 0.5 µm particles can be clearly distinguished.

High-performance Design Features of LongCyte™ - Autoloader

Configured with autoloader for free

Compatible with various types of plate adapters: 96-well standard (flat, U- and V-bottom) plates, 40-tube racks and 40-EP tube racks



Patented sampling probe mixing design

