BioSino

Professional Flow Cytometer Manufacturer

Flow cytomet**er**
ZS－AE7S

Reasearch Use Only

Precision Medicine Research Center of Chinese Academy of Sciences of Sciences

BioSino Bio-Technology and Science Inc.

Flow Cytometer
ZS-AE7S

We are committed to building our high-level flow cytometer for research and clinical diagnostics,and strive to become the leader of this industry in the future.

ZS-AE7S has many new feature; modern shape, easy for use, accurate results, and marvelous experience

One-button operarion
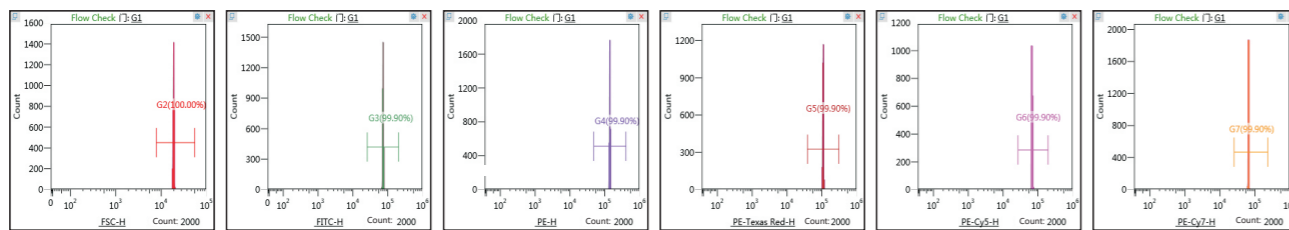
Auto-sampling design

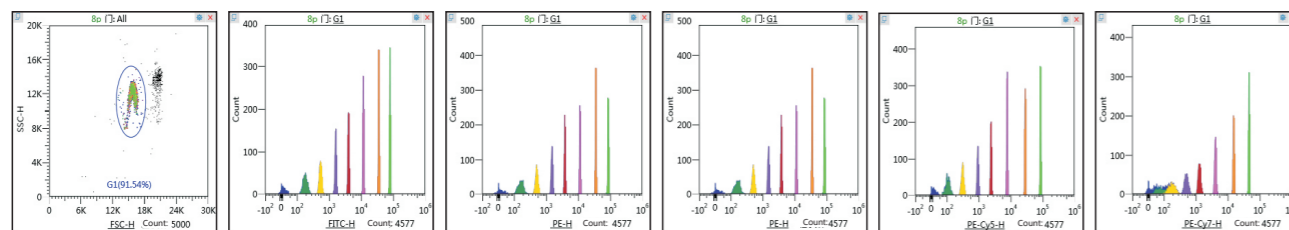Dual threshold acquisition

Automatic compensation

Accuracy

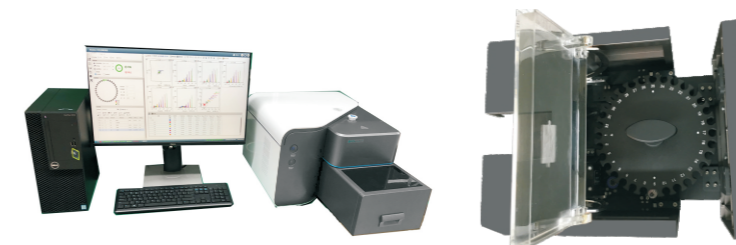**Excellent instrument resolution ratio: full peak width CV < 2%**

Excellent fluorescence detection limit: FITC<100MESF,PE<50MESF

Efficiency

32-test-tube turntable automatic loading module

Continuous testing speed up to 32 tests / hour.
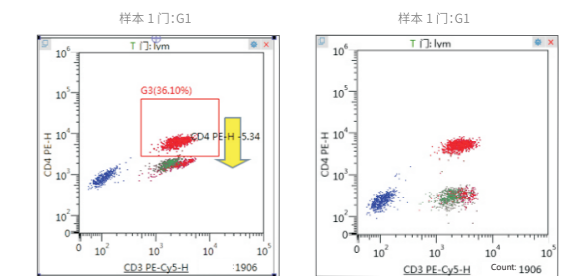
Instrument Control, Item Control, Easy to use

Apply control ▶ Start control ▶ Get Report

User-friendly

✓ English Software, easy to learn

⊞ Graphical Fluorescence Compensation Tool
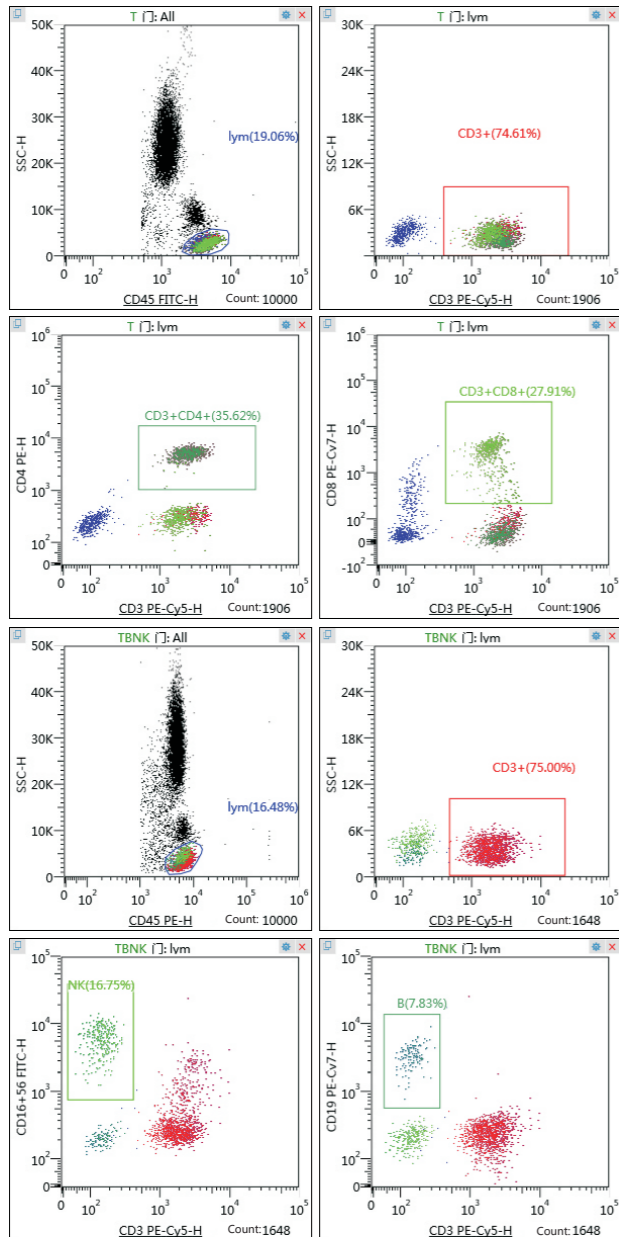
▤ One-click imported template

Clinical Application

ZS-AE7S Main Clinical Application Item

· Lymphocyte Subset T/B/NK Analysis;   · Absolute count of CD4+T lymphocyte

· Cytokine Th1/Th2/Th17 Analysis;   · HLA-B27 detection for AS
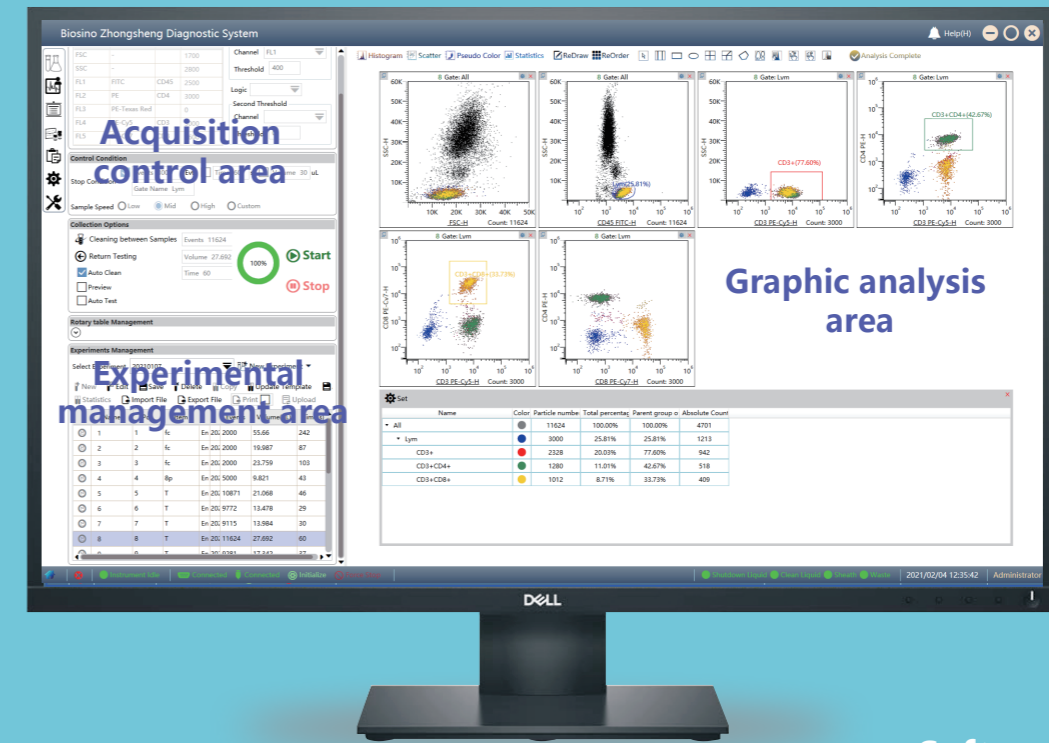
· Application of flow cytometry in reproduction

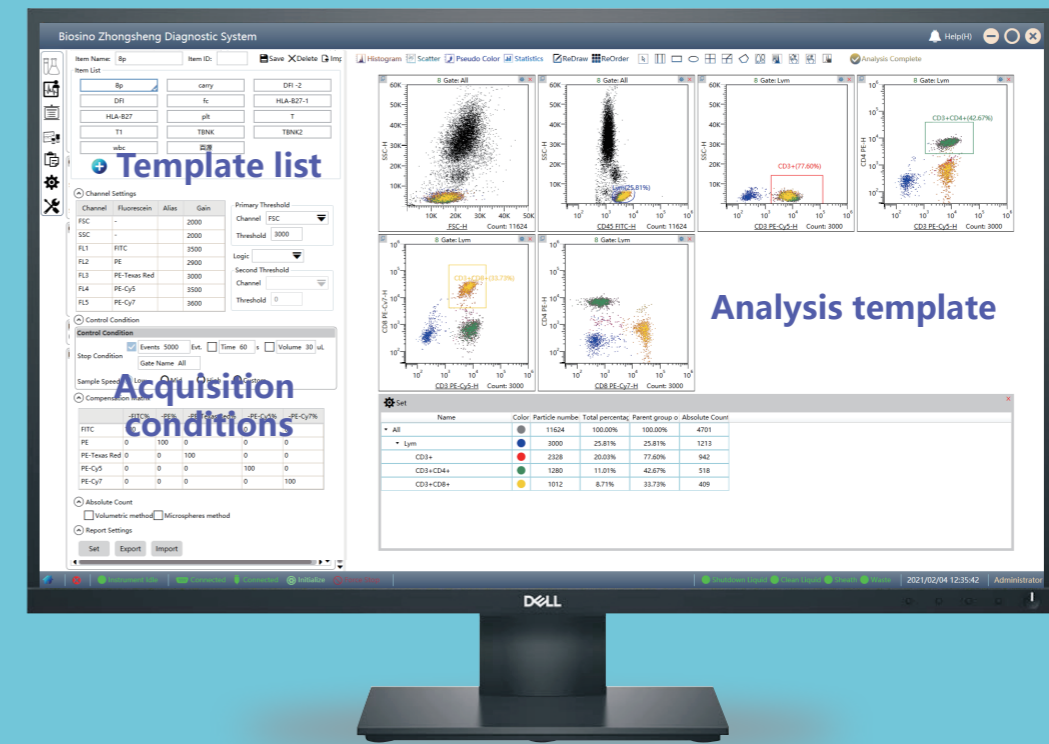**Lymphocyte Subset T/B/NK Analysis diagrams as below:**

Recommended reagent information

Item	Recommended reagent	Application Department
Lymphocyte Subset T Analysis	CD45-FITC CD4-PE CD3-PE-Cy5 CD8-PE-Cy7	Clinical Laboratory Infectious Disease Department Oncology Department Department of Rheumatology and Immunology Department of Pediatrics blood specialty
Lymphocyte Subset T/B/NK Analysis	CD45-PE CD3-PE-Cy5 CD16-FITC CD56- FITC CD19-PE-Cy7	
Absolute count of CD4+T lymphocyte	CD45-FITC CD4-PE CD3-PE-Cy5 CD8-PE-Cy7	CDC (AIDS) Infectious Disease Department
Cytokine Th1/Th2/Th17 Analysis	Th1 — IL-2 / IFN-γ / TNF-α; Th2 — IL-4 / IL-6 / IL-10; Th17 — IL-17	Infectious Disease Department Oncology Department Department of Rheumatology and Immunology Department of organ transplantation Respiratory department
HLA-B27 detection for AS	HLA-B27-FITC HLA-B7-PE IgG2a-FITC IgG1-PE	Department of Rheumatology and Immunology Orthopaedics
DFI analysis	Acridine orange (AO) staining solution	Reproductive Department Infertility Department Reproductive Medicine Centre

Software interface

Acquisition control area

Experimental management area

Graphic analysis area

Software main interface

Template list

Acquisition conditions

Analysis template

Project Template

Configuration and main parameters of ZS-AE7S

Item	Parameters
Laser	488nm solid
Detector	FSC、SSC、FL1-FL5
Fluorescence Channel	FL1:525/50（FITC）　　　　　　　　　FL2:585/40（PE） FL3:630/30（PE-Texas Red/ECD/PI）　　　FL4:697/60（PerCP/PE-Cy5/PE-Cy5.5） FL5:780/60（PE-Cy7）
Fluorescence sensitivity	FITC ≤ 100 MESF；PE ≤ 50 MESF
Fluorescence linearity	≥ 0.99
FSC sensitivity	≤ 1μm
Test particle size	0.5-50μm
Carry Over	≤ 0.5%
Instrument CV	FSC and all FL channel CV less than 2%
FSC and SSC CV	Can separate red blood cells and platelet, can separate white blood cells into 3 groups
Test speed	≥38000 cells/s
Minimum Sample Vol	90μL
Measure Range	Maximum Support 10^7
Threshold	Double threshold, minimum cells fraction
Fluorescence compensation	Support auto online compensation, offline compensation and visualized compensation
Item Template	Support Item template, acquisition condition/ fluorescence compensation 1-click use
Intake method	Manual intake Rotary Wheel auto-sampling with auto- mixing function:32tests/wheel,
Liquid storage station	sheath bottle, waste bottle, shutdown liquid bottle 2L cleaning liquid bottle 0.5L
Software	English/Chinese
PC	Dell（CPU i5/8G DDR4/1T hard disk）+Dell 27 inches monitor
Size/ Weight	500mm*605mm*305mm（L*W*H）,35KG

Service/After Sales

Free Training

Regular maintenance

Active care service

Professional Support