

Jimbio iCytal Series			
Product Model	S1	S2	S3
Chip Consumables	None		
Sample Volume	10μL		
Sample Concentration	1x10^4~1x10^7 cells/mL	1x10^4~2x10^7 cells/mL, maximum at 4x10^7 cells/mL	
Detection of Particle Size	3~30μm		
Detection Time	20~30s, depends on the cell concentration		
Image Module	×	✓	
Image Magnification	×	5X	
Dye Used	×	Trypan-blue	Trypan-blue
Automatic Dyeing Module	×	×	✓
Automatic Cleaning	✓		
Diameter of the District	✓		
Dilution Calculator	✓		
Data Input and Output	USB 2.0; All-in-one		
Coefficient of Variation	≤5%		
Application	PBMC, mouse spleen cells, nerve cells, tumor cells, yeast cells and other low or non-conductive particles		

\*Jiangsu Jimbio Technology Co., Ltd. reserves the right of final interpretation of different applications.

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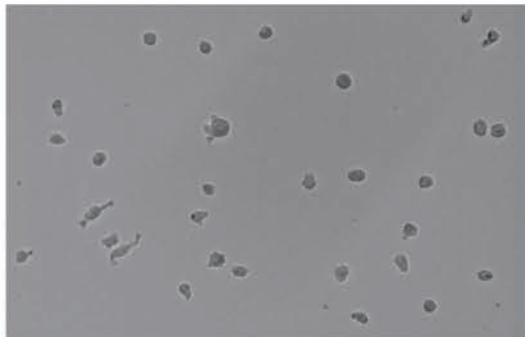
🌐 www.jim-bio.com



JIMBIO ICYTAL  
SERIES CELL COUNTER

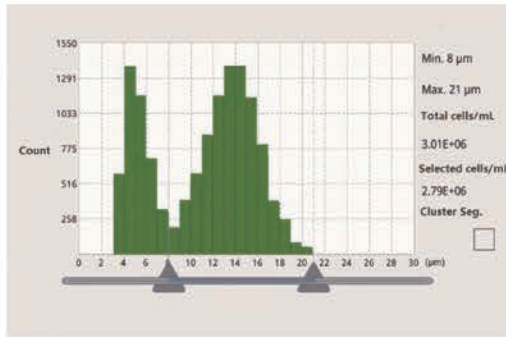


The count is not affected by the shape



Picture 1. Different morphology of the cells after digestion

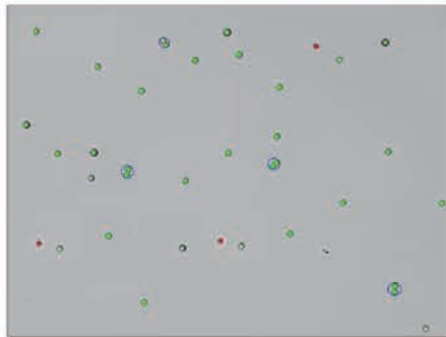
Precisely distinguish cells from debris



Picture 2. Histogram of over detached cell sample, showing both debris and cells

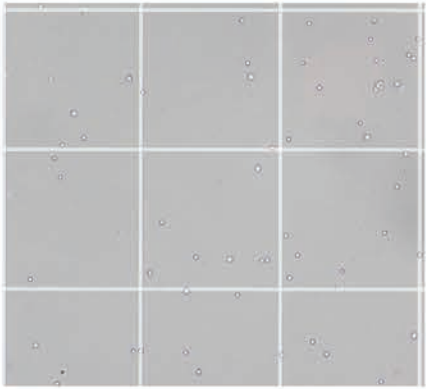
Take 50 pictures, provide viability and cluster rate, give accurate results by advanced image algorithm

- Monitor the size, viability and concentration of the cells
- Take pictures during the cells flow through the microfluidic channel
- Distinguish cells from debris, get the real cell concentration

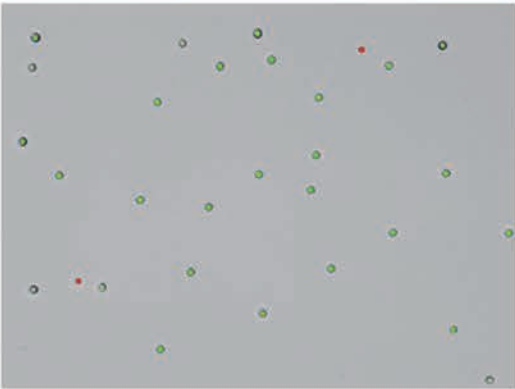


Picture 3. Cell labeling picture  
(Green for living cells, red for dead cells, white for impurities, blue for clumped cells)

Solved the out-of-focusing problem caused by multi distribution layers in mouse spleen cells, PBMC and other small cells

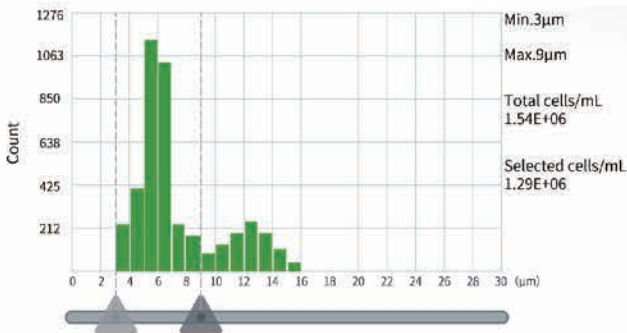


Picture 4. The results of PBMC sample were examined by microscope (Serious stratification, contour is not cleaned)



Picture 5. PBMC test results by Jimbio iCytal S2/S3

According to cell size, different type of cells can be separately counted



Picture 6. Histograms of mixed samples of tumor cells and immune cells



Error comparison between manual counting and Jimbio iCytal S3 automatic counting		
	Manual	Jimbio iCytal S3
Sample volume	2%	2%
Sample dilution	5%	0%
Trypan-blue blend	2%	0.5%
Timing of staining and incubation	5%	0.5%
Counter board assembled	3%	0%
Add the sample	2%	2%
Counting process error	39%	5%
Differences between operators/instruments	>10%	<5%
Counting volume ratio	1%	100%
Total error	68%	10%