

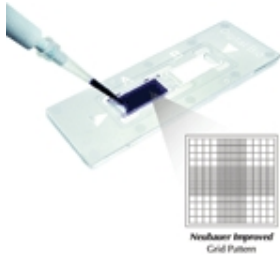
Countess™ 自动细胞计数仪

——手指动动，轻松计数

- 30秒即可完成活细胞和死细胞计数
- 测量细胞的存活率和平均大小
- 无需复杂设置和清洗



The Countess automates a tedious task



HEMOCYTOMETER

- Inexpensive (\$300 each)
- Accepted
- Can use trypan blue to assess viability
- Tedious
- Eye-strain
- Washing is a pain
- Slow
- Subjective
- Must do all calculations by hand

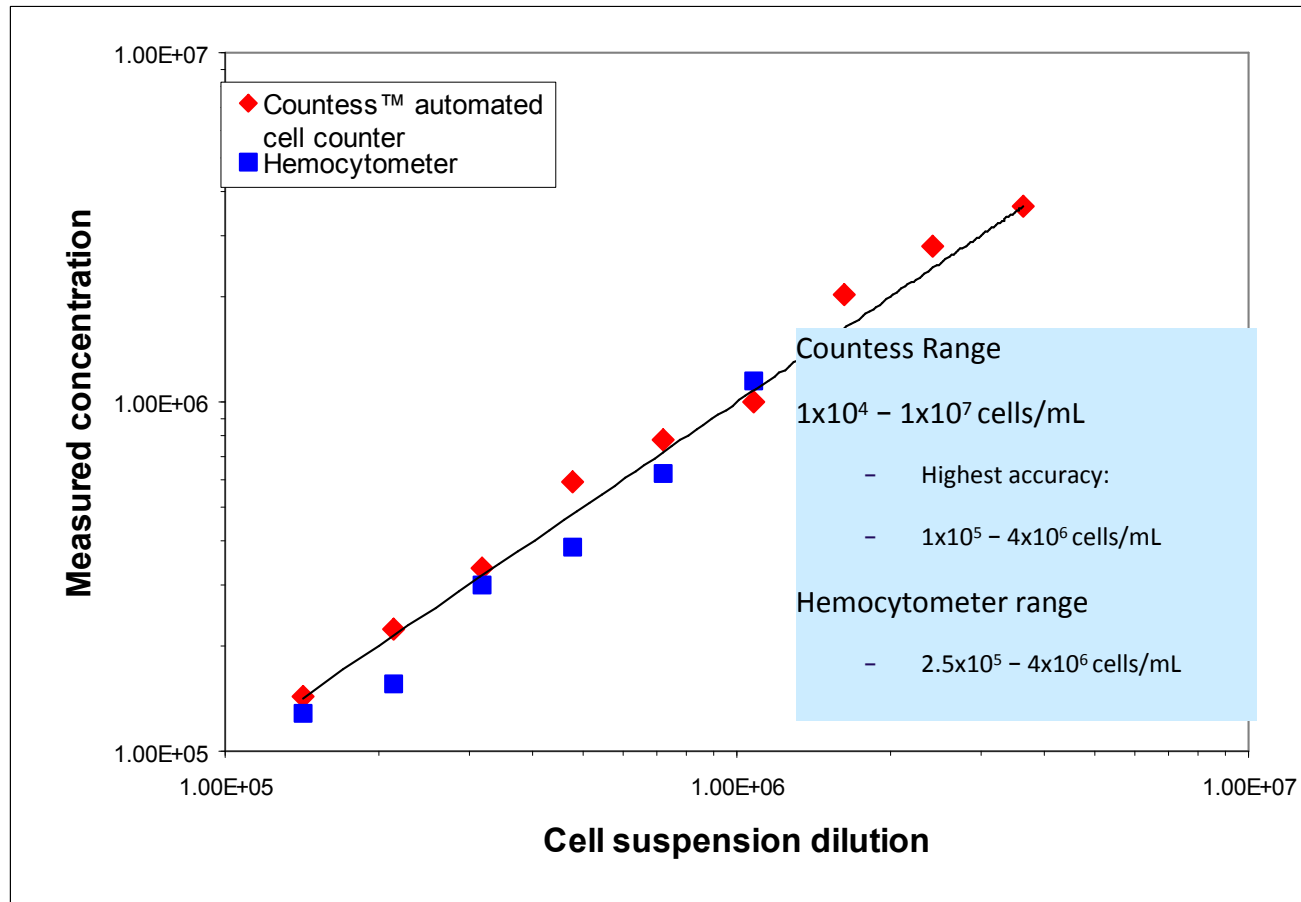


COUNTLESS™ automated cell counter

- Counts cells in 30 sec
- Uses accepted trypan blue technique
- Counts live and dead cells
- Calculates % viability
- Measures cell size
- Includes dilution calculator
- Download data to USB drive
- Reduced subjectivity
- No eye-strain
- Disposable counting chambers better for biohazardous materials
- No washing or clean-up necessary
- No maintenance necessary



Countess data matches hemocytometer data



Countess™ makes cell counting easy

1. Mix 10 uL of sample with 10 uL of trypan blue & pipet into Countess chamber slide



2. Insert slide into Countess instrument



3. Focus and Press “Count cells”



Just 30 seconds with no tedious counting



Includes dilution calculator and archiving functions

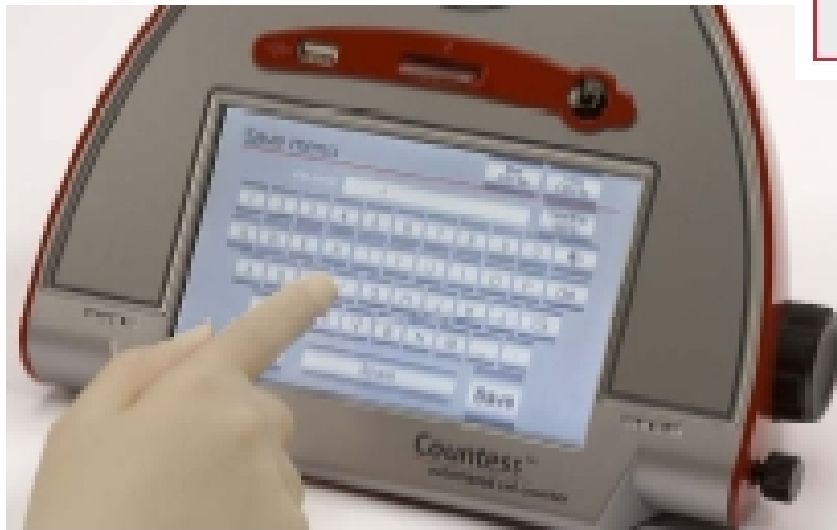
Dilution calculator

Current count

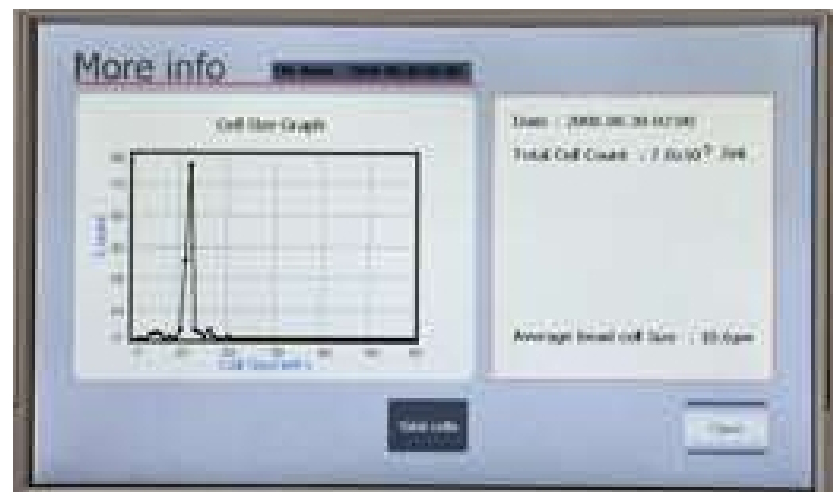
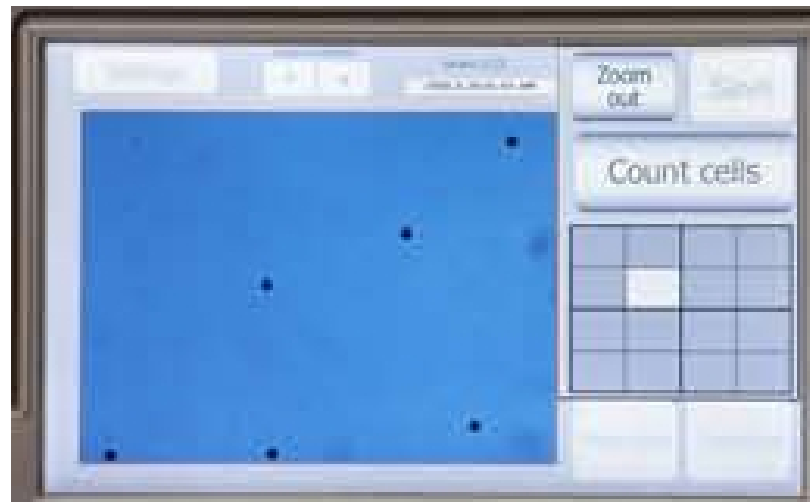
What is your desired cell concentration? ×

How many ml do you need to make?

Mix ml of your cell solution with ml of buffer

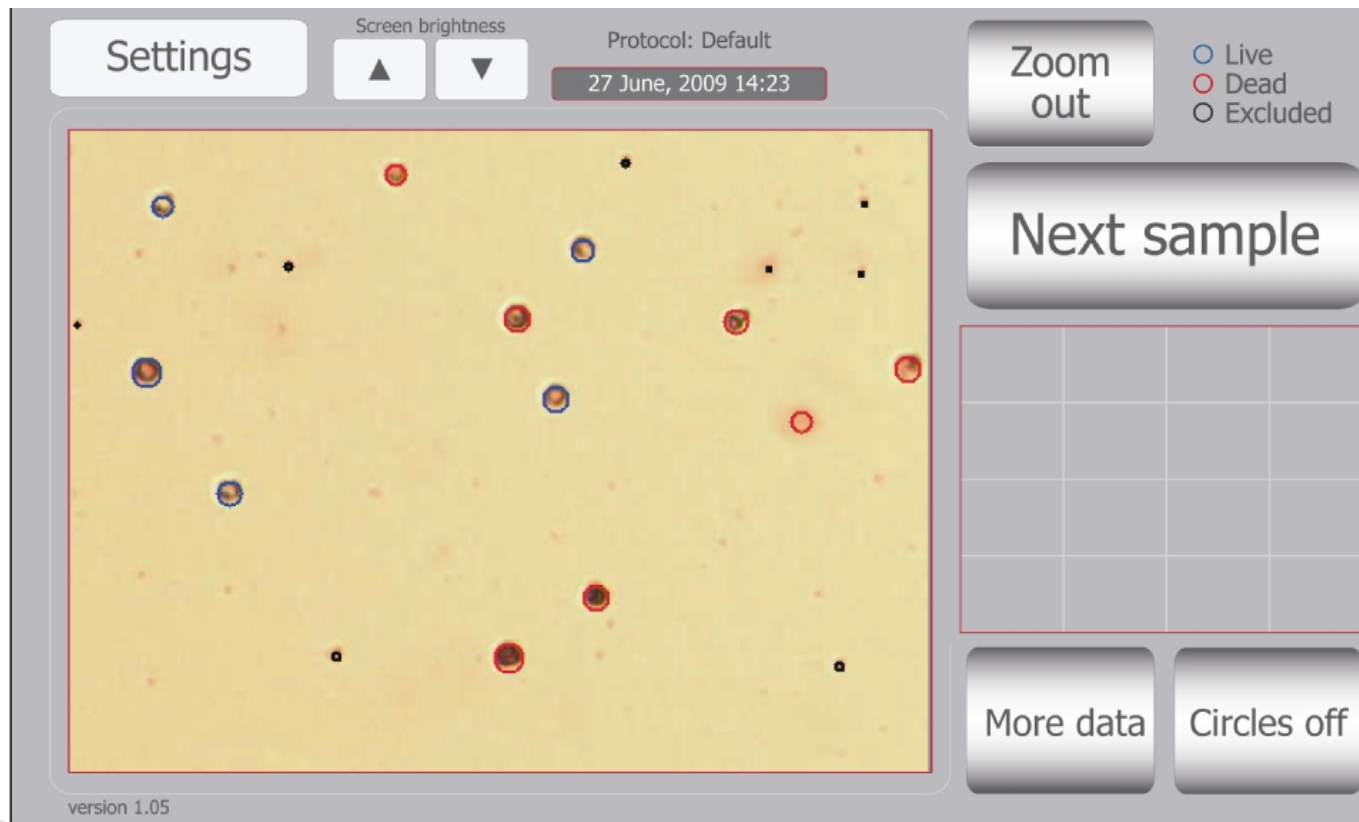


Zoom in, see data, save data



Viability Verification

- After a count is performed the “details” button appears
- Press the details button to view viability circles



The Countess works with many cell types

Cell type	Species	Tissue	Primary or Immortalized Cell line	Average cell size
293-Herg	Human	kidney	immortalized	13 um
A431	Human	skin	immortalized	15.5 um
CHO-M1	Hamster	ovary	immortalized	
CHSE	Fish	embryonic		16-17 um
COLO-207	Human	intestine	immortalized	
COS-7	Monkey	kidney	immortalized	
HASMC	human	smooth muscle	primary	20 um
HeLa	Human	cervix	immortalized	
HepG2	Human	liver	immortalized	18 um
HL-60	Human	blood	immortalized	
HPAEC	human	artery endothelial	primary	13 um
HPASMC	Human	smooth muscle	primary	20 um
HUVEC	Human	umbilical vein	primary	17 um
J774(MMM)	Mouse	blood	immortalized	13-14 um
Jurkat	Human	blood	immortalized	12 um
K-562	Human	bone/marrow	immortalized	
MCF-7	Human	mammary	immortalized	20-24 um
MRC-5	Human	lung	immortalized	18 um
NIH/3T3	Mouse	embryonic	immortalized	18 um
PC-12	Rat	adrenal	immortalized	12-14 um
SF-21	insect	ovary		
U266	Human	blood	immortalized	12-13 um
U2OS.	Human	bone/marrow	immortalized	
Adipocytes	human	fat	primary	16-17 um
melanocytes	Human	skin	primary	
keratinocytes	Human	skin	primary	

Counts cell sizes
5 – 60 μ m

Best concentration
range is
 $\geq 1 \times 10^5 - 4 \times 10^6$
cells/mL

