CURIOSIS

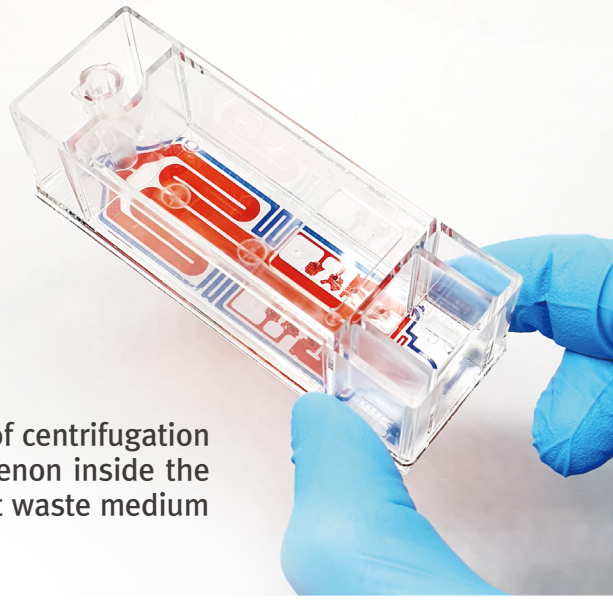
Cellpuri®

Disposable cell concentration chip

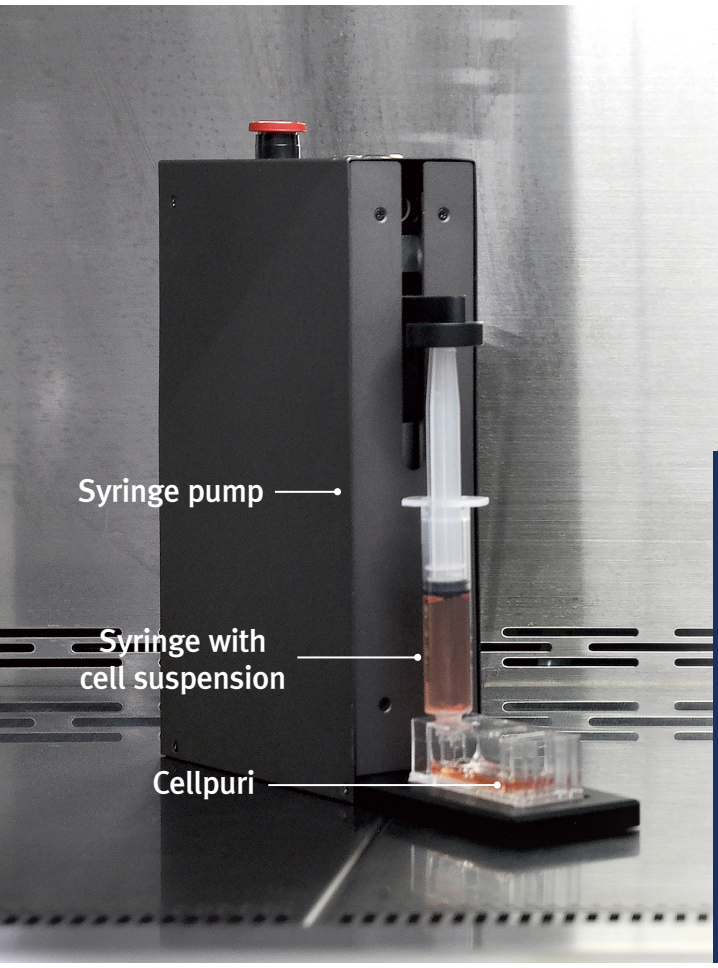
NeT 신기술인증 NEW EXCELLENT TECHNOLOGY

2023 R&D 100 WINNER

Meet Cellpuri and you will never have to use Centrifuge to enrich your cells.



* Cellpuri® is a disposable chip that enriches cells without the use of centrifugation method. Cells are being separated using the rheological phenomenon inside the microchannels where the cell suspension pass through to filter out waste medium and enriched cells are collected in the outlet.



Key features:

- **User-friendly** disposable cell enrichment chip
- Enriches cells more than **20 times** in **2 minutes**
- Centrifugation-free workflow **minimizes cell damage**
- All processes are **done inside the clean bench**
- **Reduces human error** as enrichment is automatically processed with the syringe pump

Enrich cells in 3 steps!

STEP 1 Cell preparation

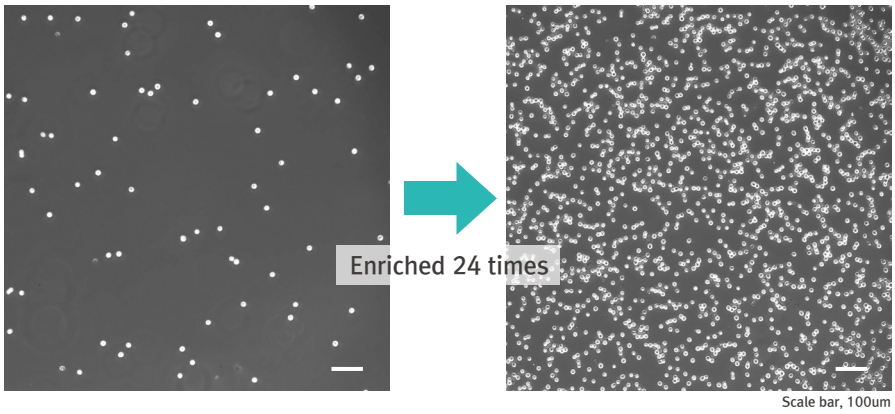
↓

STEP 2 Position Cellpuri on the syringe pump

↓

STEP 3 Press RUN

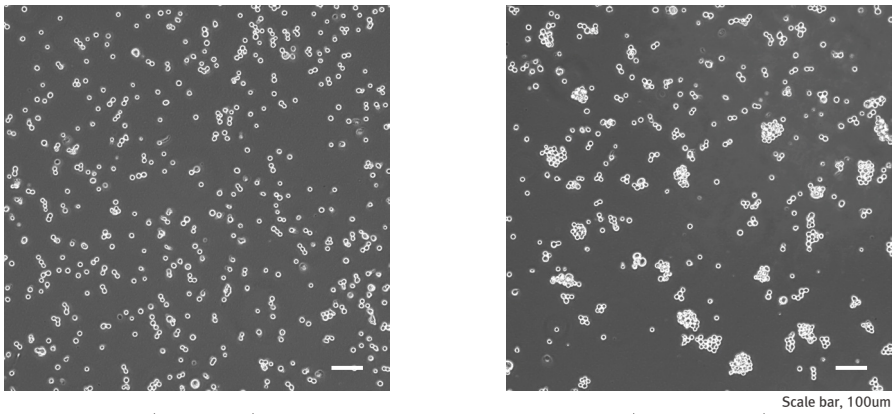
Cell enrichment by Cellpuri



Scale bar, 100um

Cellpuri efficiently separated HL-60 cells from medium without spinning-down the cells and more than 20-fold enrichment (121.2x10^5 cells/mL) was observed in HL-60 cells at an initial concentration of 4.9 x 10^5 cells/mL.

Reduced cell clumping with Cellpuri



Scale bar, 100um

〈Cellpuri〉 〈Centrifuge〉

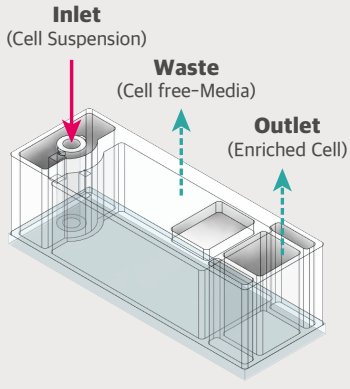
Adherent cells, including MCF7 cells, tend to form clumps during the cell passage. But as shown in above images, enrichment using Cellpuri reduces cell clumping while centrifugation pellets the cells and thus increasing the clumping cells.

CURIOSIS

What is Filterless Filter (FLF) Technology?

It is a microfluidic chip-based cell separation and concentration technology developed by Curiosis. Countless micrometer-sized channels inside the chip create a rheological flow that separates, concentrates, and removes particles of a specific size from the solution. Microchannels were strategically designed to isolate cells according to their size where larger cells are directed towards one side whereas smaller cells flow randomly on lateral axis that eventually compile on the other side. FLF technology can be applied to cell enrichment, white blood cell separation, and blood-plasma separation.

Specification	
Dimension	76 x 25 x 23 mm
Sample size	7~15 μm size cells
Flow rate	1ml / min
Enrichment	20-fold
Yield	90%~
Loading Volume	~20ml



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