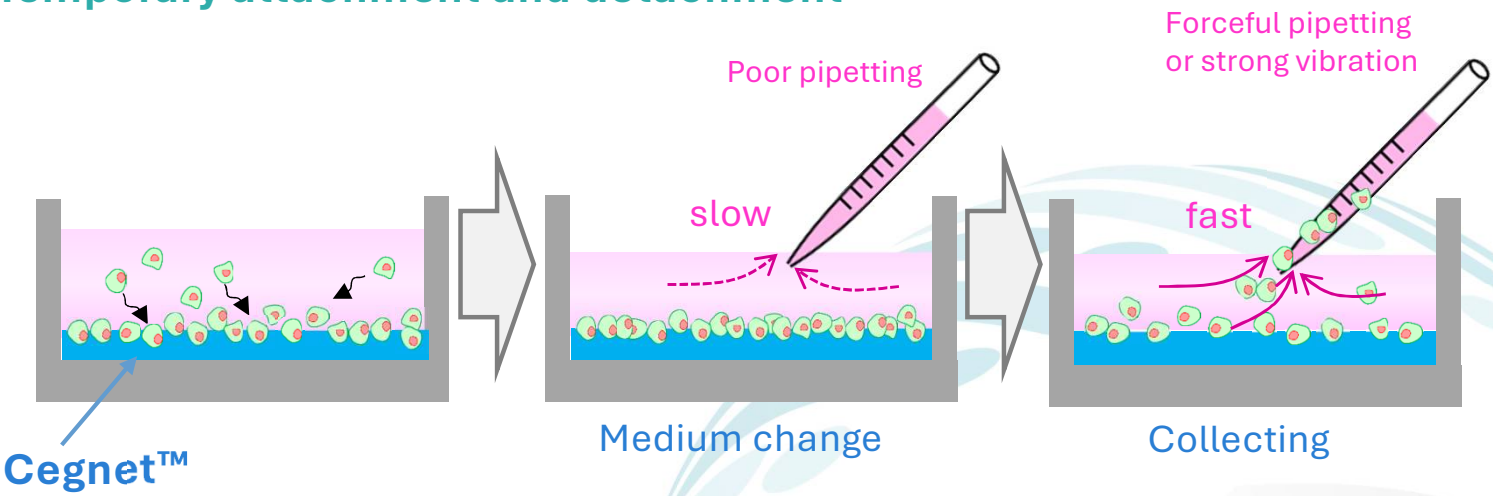
Cegnet™

Accurate and easy cell quantification, enhancement of gene transduction

Cegnet™ is a chemically synthesized polymer and an innovative coating material designed for the temporary attachment and detachment of suspension cells, such as T cells or blood cells. It enables precise control of cell numbers without requiring centrifugation, cell counting system, and complicated procedures.
Cegnet™ enhances gene transduction efficiency compared to untreated substrates without requiring a concentration process, thereby increasing the population of cells with gene expression.
Cegnet™ supports streamlined workflows in cell therapy manufacturing by minimizing cell loss and damage, thereby simplifying the fully automated cell therapy manufacturing platform.

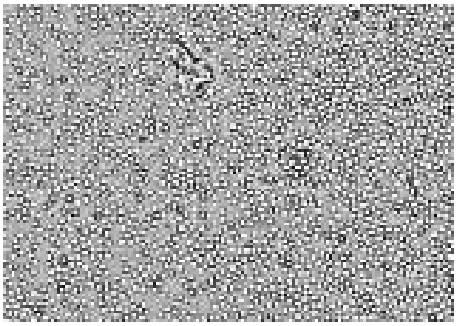
Temporary attachment and detachment



Microscopic images

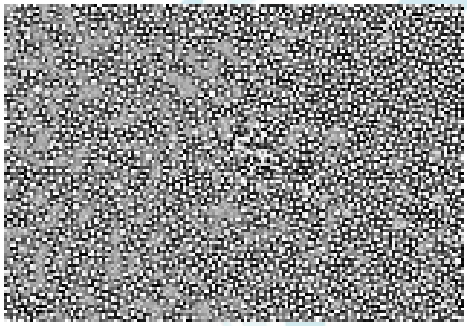
Cell: human T cells
Medium：RPMI-1640 + 10%FBS

Before medium change



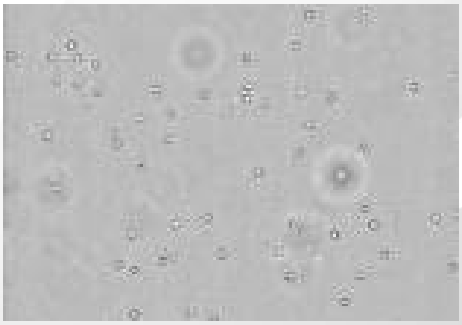
・Temporary attachment

After medium change



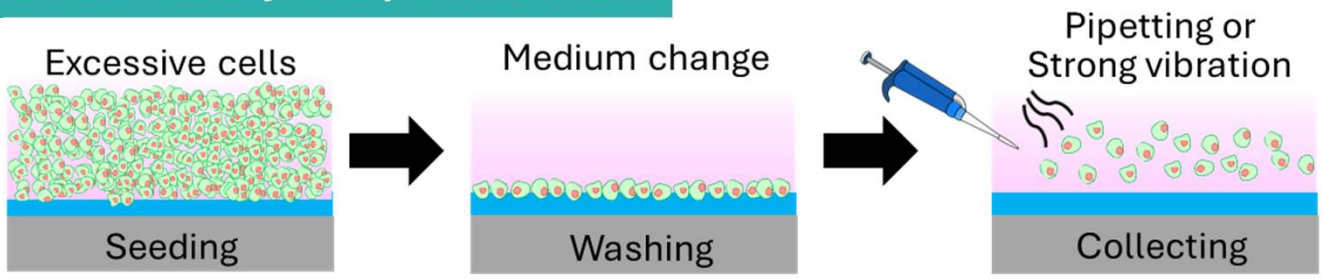
・Maintain attachment

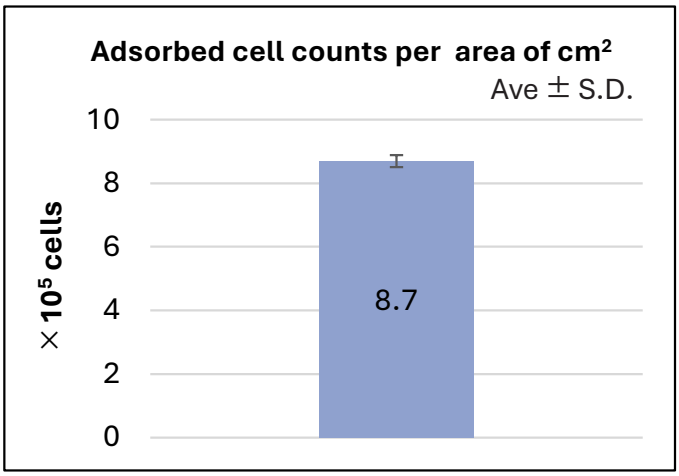
After collecting



・Detachment caused by water flow
・Harvest yield > 99%

Accurate and easy cell quantification



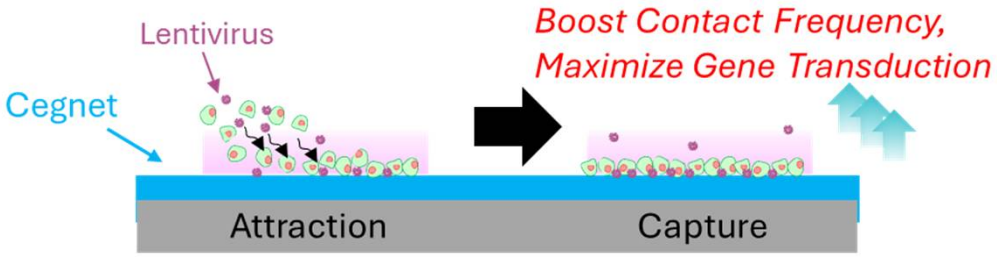


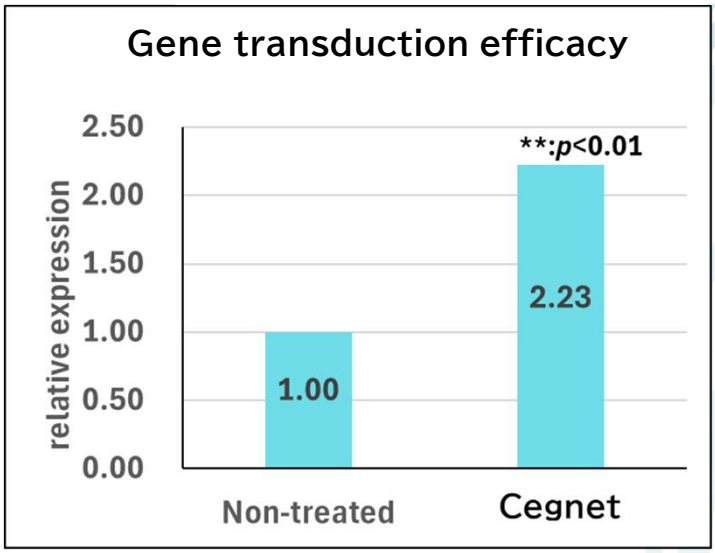
Cell：Jurkat cell
Medium：RPMI-1640+10%FBS

"Just Like Using
a Measuring Cup!"

Consistent cell recovery with a CV of 2%
— Streamline your process from seeding to Fill and Finish!

Enhancement of gene transduction





Cell：Jurkat cell
Medium：RPMI-1640+10%FBS
Virus: Lentivirus
Assessed by Flow Cytometry at 24 hrs

Achieved more than double the efficiency compared to untreated substrates
— For your infection processes!

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