Enabling Tomorrow's Medicine

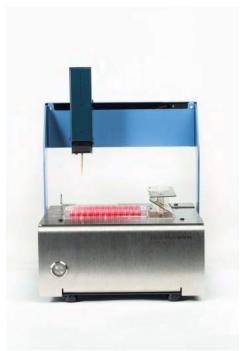
DISPENCELL empowers scientists to isolate single cells more efficiently and reliably.



DISPENCELL

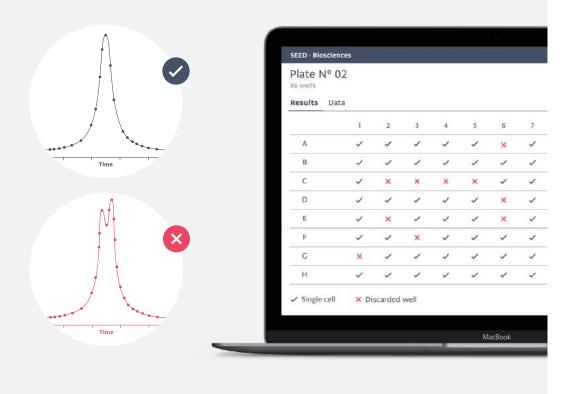
A Simple Single-cell Dispenser

DISPENCELL is an automated laboratory instrument developed for fast, easy and gentle single-cell isolation. Designed by scientists for scientists, DISPENCELL has been designed to integrate seamlessly into your lab routine, with a plug-and-play approach.





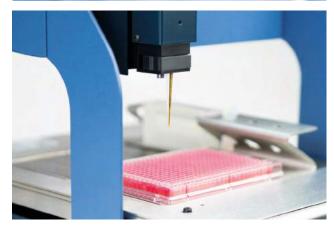
One click, One cell.





DISPENCELL is fitted with a sensing tip that acts as a Coulter counter. As a single cell passes through the Coulter aperture to flow into the well, it leaves an electrical signature that appears as a unique peak, whereas multiple peaks result from doublets or multiple cells.





TRACEABILITY

Single-cell Mapping

Single-cell analysis software provides a map for immediate and traceable proof of clonality. DISPENCELL's single-cell dispensing unit is fitted with a sensing tip that detects the passage of the cells. As each cell advances, a unique electrical signal is triggered. This unique electrical trace is immediately recorded, allowing the user to check for proof of clonality immediately after the cells are dispensed. The full set of data is stored in a proof of clonality report. DISPENCELL's technology is patented.

4 5



BENEFITS

An Enhanced User Experience for Faster and Better Results



EASY TO USE

Intuitive with a simple interface and easy to set up. No cleaning or calibration required.



CONTAMINATION-FREE

A patented disposable tip ensures clean isolation of single cells and no cross-contamination. Certified free from animal products and cytotoxic material.



PROOF OF CLONALITY

A single-cell analysis software tool provides a traceable proof of clonality report instantly.



HIGH CLONING EFFICIENCY

HIGH CLONING EFFICIENCY
Its unique design ensures gentle dispensing for better viability and cloning efficiency.

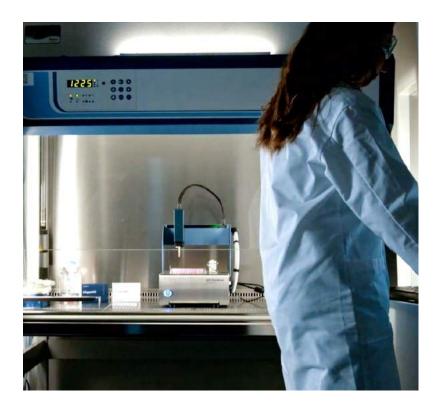


COMPACT

Benchtop-sized, DISPENCELL fits perfectly under a hood to work under sterile conditions, on a bench top for routine seeding or in a pre-existing automated workflow.

"The DISPENCELL is not rocket science and that's exactly why we like it. User adoption is easy, it is gentle with cells and it provides monoclonality assurance. Those are key features that we need in a robust iPSC line development factory."

HANS WEBER Automation Lead, Century Therapeutics

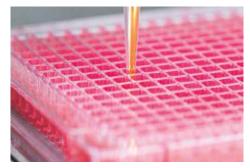


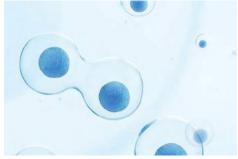
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SUITABLE APPLICATIONS

The Right Instrument to Optimize your Workflow

Single-cell isolation and proof of clonality are essential to multiple applications, including cell line development, CRISPR-mediated gene editing, rare cell isolation, monoclonal antibodies screening and single-cell genomics. Application notes are available to guarantee an optimal user experience.





CELL LINE DEVELOPMENT

CRISPR-MEDIATED GENE EDITING



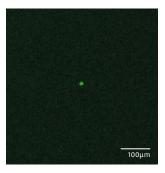


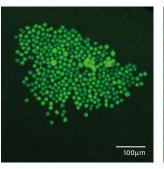
MONOCLONAL ANTIBODY SCREENING

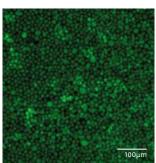
RARE CELL ISOLATION

CELL-FRIENDLINESS

As Gentle as Manual Pipetting







DAY 0

DAY 7

DAY 14

DISPENCELL'S unique technology allows extremely gentle handling of the cell sample, comparable to manual pipetting (less than 0.1 psi), yet more efficient. Consequently, cell viability and outgrowth are preserved.

Clonal outgrowth of a single CHO cell dispenced with DISPENCELL.

TECHNICAL SPECIFICATIONS

DISPENCELL Compared to Other Cell Sorters

	DISPENCELL	OTHER CELL SORTERS
PRESSURE	Less than 0.2 psi	20 to 70 psi
PLATE HOLDER	2 plates (96 or 384 wells)	1 plate
MINIMAL CELL NO	200 cells	> 5'000 cells
CALIBRATION	No need	30 min to 1 h
CLEANING	No need	30 min
SAMPLE PREP.	10 min	30 min
DISPENSING	96 well plate in 5 min	96 well plate in 2 min
CELL PARAMETERS	Size, doublets	Size, doublets, colours

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TRUSTED BY































































REFERENCES

Bonzon, D. et al. (2020) 'Impedance-Based Single-Cell Pipetting', SLAS TECHNOLOGY: Translating Life Sciences Innovation, 25(3), pp. 222–233. doi: 10.1177/2472630320911636.

Muller, G. et al. (2020) 'Traceable Impedance-Based Dispensing and Cloning of Living Single Cells', SLAS TECHNOLOGY: Translating Life Sciences Innovation, 25(3), pp. 215-221. doi: 10.1177/2472630320905574.

Hannart, H. et al. (2021) 'Traceable Impedance-based single cell pipetting: from a research set-up to a robust and fast automated robot', SLAS TECHNOLOGY: Translating Life Sciences Innovation. doi: https://doi.org/10.1016/j.slast.2021.12.003

Ben Khelil, M et al. (2021) 'A new workflow combining magnetic cell separation and impedance-based cell dispensing for gentle, simple and reliable cloning of specific CD8+ T cells', SLAS TECHNOLOGY: Translating Life Sciences Innovation. doi: https://doi.org/10.1016/j.slast.2021.11.001

Get started.
Explore single-cell dispensing with us.

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SEED Biosciences is a Swiss award-winning company providing innovative solutions for your single-cell assays.

