

# 1CellAssay<sup>®</sup> Single-Cell Isolation & Lysis Kit

Highlight

Guarantee to isolate 24 single cells
Isolate single cells in 2 µL volume

Lyse single cells in 4 μL volume

1CellAssay<sup>®</sup> Single-Cell Isolation & Lysis Kit provides a complete solution from easy single-cell isolation to rapid single-cell lysis in a small volume to perform various single-cell analyses, e.g. PCR, sequencing & multi-omics.



Cat. No. K1-SCLS-KIT

### **Applications**

- Single-cell isolation from cell lines, CRISPR-edited cells, stem cells, and primary cells
- ✓ Single-cell lysis in a small volume
- Single-cell PCR & sequencing
- Single-cell multi-omics assays, e.g. protein and metabolite quantification

### **Features**

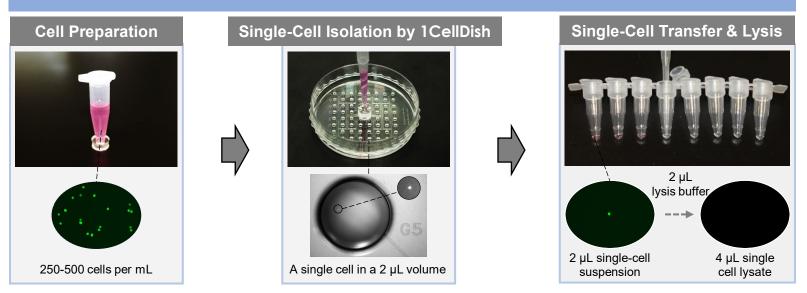
- Easy operation by regular pipette in a sterile hood
- ✓ Gentle flow keeps high single-cell viability & integrity
- ✓ Compatible with cell size ≤ 50  $\mu$ m and numbers ≤ 100
- ✓ Isolate and lyse 24 single cells in less than 30 minutes
- ✓ No special equipment or operation skills are required
- ✓ No liquid backflow or cross-talk between wells

Component	Description
1CellDish <sup>™</sup> -60mm	2 devices (60 mm Petri Dish format; flat polystyrene well bottom; isolate ~ 20 single cells per device)
Cell Lysis Buffer	200 µL (10mM Tris pH 7.5, 130mM NaCl, 1% Trito n X-100™, 10mM NaF, 10mM NaPi, 10mM NaPPi)
8-Strip PCR Tubes	3 strips (DNA, RNase & DNase free; compatible with 0.2 mL thermal cycler for qPCR/Real-Time PCR )

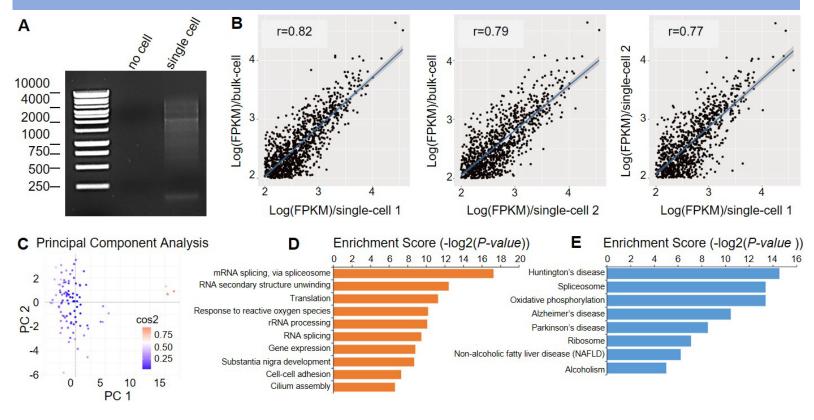
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## **Single-Cell Isolation and Lysis**



## Single-Cell PCR and RNA-Sequencing



(A) Analysis of partially purified cDNA from 1 single NK-92 cell.

(B) Correlations between 2 single NK-92 cells and bulk NK-92 cells in RNA-seq measurement of the gene.

(C) Principal Component Analysis of 92 single HEK 293 cells (blue dots) and 4 non-template controls (red dots).

(D-E) Enrichment analysis of GO terms and pathways for highly variable genes of 92 single HEK 293 cells.

Note: 1CellDish<sup>™</sup>-60mm is used with SMART-Seq v4 Kit (A-B) and BD Whole Transcriptome Analysis Kit (C-D).