

# 1CellAssay®-Lysis Kit

Ultra-Low Volume Single-Cell Isolation & Lysis Kit

1CellAssay® Ultra-Low Volume Single-Cell Isolation & Lysis Kit provides a complete solution from easy single-cell isolation in a 2 µL volume for downstream single-cell lysis, PCR & sequencing.



Cat. No. K1-SCLS-KIT

### **Highlight**

- Guarantee to isolate 24 single cells
- ❖ Isolate single cells in 2 µL volume
- Lyse single cells in 4 μL volume

### **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

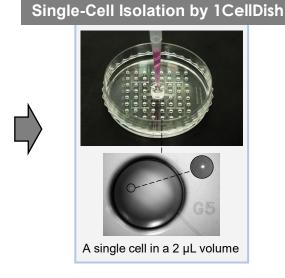
### **Features**

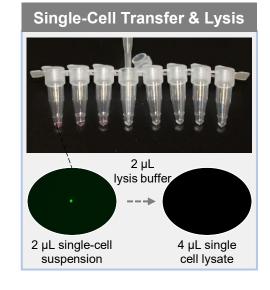
- Easy operation by regular pipette in a sterile hood
- ✓ Gentle flow keeps high single-cell viability & integrity
- ✓ Compatible with cell size ≤ 50 µm and numbers ≤ 100
- ✓ Isolate and lyse 24 single cells in less than 30 minutes
- ✓ No special equipment or operation skills are required
- ✓ No liquid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

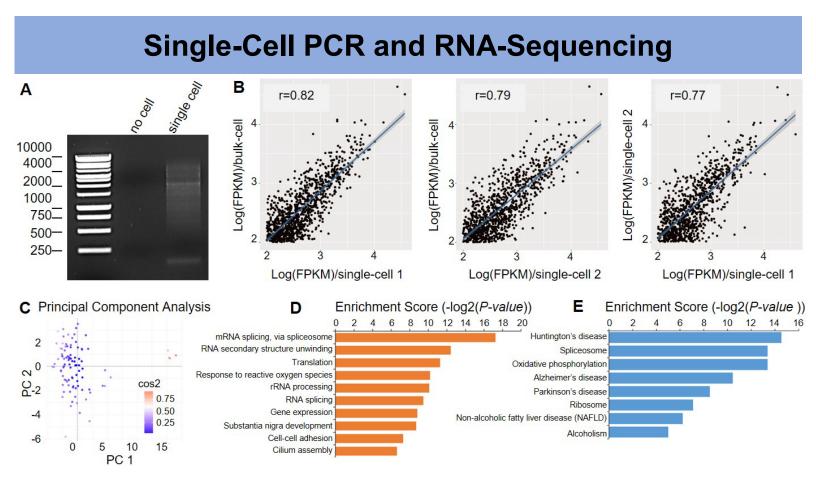
Component	Description
1CellDish <sup>™</sup> -60mm	2 devices (60 mm Petri Dish format; flat polystyrene well bottom; isolate ~ 20 single cells per device)
Cell Lysis Buffer	200 μL (10mM Tris pH 7.5, 130mM NaCl, 1% Trito n X-100™, 10mM NaF, 10mM NaPi, 10mM NaPi)
8-Strip PCR Tubes	3 strips (DNA, RNase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

## Single-Cell Isolation and Lysis

# Cell Preparation 250-500 cells per mL







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