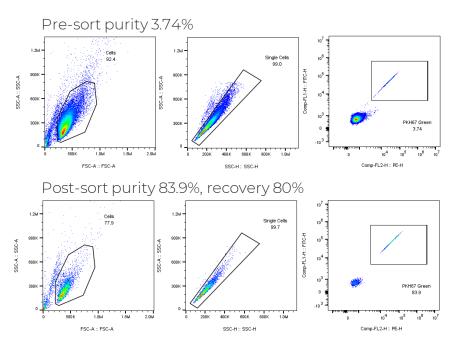
## Highway1

The fastest, gentle, sterile cell sorter for every lab



## **Truly Gentle Enrichment Sorting**

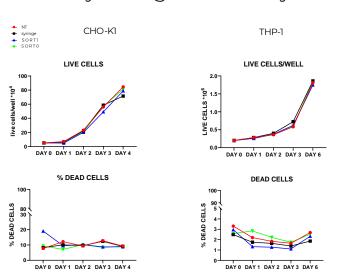
THP-1 and CHO-K1 cell lines



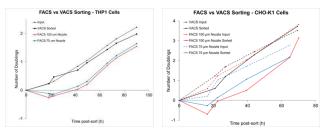
Cryopreserved CHO-KI cells were thawed at passage 14. Cells were grown up and harvested at around 90% confluency using HBSS, 0.25% trypsin, and resuspended in HBSS, 0.1% Pluronic-188 with Benzonase and 0.3mM Magnesium Chloride.

For sorting, around 4% of cells were stained with PKH67 green and spiked into the unstained sample to give a cell concentration of 2 million/mL. Cells were run at 9,000 events per second and PKH67 green positive cells were sorted in enrichment mode. The purity increased from 3.74% to 83.9%, and the recovery was 80%.

### Viability and growth assays using CHO-K1 and THP-1 cells



Growth of CHO-Kland THP-1cells on a conventional droplet sorter showed a 1-day growth lag compared to Highwayl and non-sorted control.



Growth and viability of CHO-K1 and THP-1 cells deflected on Highway1 (sort1) showed no reduction compared to the non-treated control (NT), cells pressurised in the syringe only (syringe), or non-deflected cells (sort0) passed through Highway1.

#### Contactus

hello@cellularhighways.com cellularhighways.com

Cellular Highways Ltd. Melbourn Science Park Cambridgeshire UK

## Highway1

The fastest, gentle, sterile cell sorter for every lab



#### Fast

With cell throughput rates of 37,000 per second in enrichment mode and 10,000 per second in purity mode, the Highwayl is the fastest microfluidic chip sorter.

#### Gentle

Using patented VACS<sup>TM</sup> technology, The Highwayl reduces cell stress compared to conventional droplet sorters.

#### Sterile

Samples are run in sterile, single-use cartridges without sheath fluid to prevent sample contamination using the Highwayl.

#### For every lab

The intuitive software simplifies the sorting process so the Highwayl can be used in every lab.

## Highwayl Instrument and desktop PC



# Sterile cartridge, syringe and cartridge filler



Highwayl product list	ltem number
Highwayl Instrument	A10000-1001
Highwayl Syringe Adaptor 3ml	A10000-1029
3ml Syringe (pack of 25)	A10000-1073
3ml Syringe Blunt Needle (pack of 100)	A10000-1076
3ml Syringe Strainer (pack of 25)	A10000-1077
Highwayl Fan Filter (pack of 5)	A10000-1078
Daily QC Beads Kit (5ml)	A10000-1079
Highway Cold PackKit	A10000-1081
Highwayl Cartridge Rack	A10000-1082
Highwayl Cartridge	A10000-1083
Highwayl Cartridge Loader	A1000-1084
Highwayl Optics Wipes (pack of 30)	A1000-1101

#### Contactus

hello@cellularhighways.com cellularhighways.com Cellular Highways Ltd. Melbourn Science Park Cambridgeshire

UK