

FACS Sorting

Fluorescence-Activated Cell Sorting



Droplet Formation

High-frequency vibration creates uniform droplets. Poisson statistics ensure one cell per droplet.

Charge Deflection

Electrostatic deflection: $\pm 3000\text{-}5000\text{V}$. Precise timing critical for accurate sorting.

Purity vs Yield

Index Sorting

Tradeoff in gating strategy. Purity mode: >99%. Yield mode: maximize recovery.

Link phenotype to well position. Enables single-cell sequencing correlation.