

# Xdrop®

Samplix®

**Fast encapsulation  
of cells and DNA for  
downstream analyses**



## Features

- Encapsulates living cells or DNA fragments in double-emulsion (DE) or single-emulsion (SE) droplets
- Produces millions of droplets in a single run
- Processes 8 samples in parallel in under an hour

## Benefits

- **Versatile droplets:** compatible with incubators, flow cytometers, cell sorters, and thermal cyclers
- **Reveals population heterogeneity:** single-cell format assays
- **Straightforward:** just load your sample and Samplix reagents
- **Accessible to every lab:** user-friendly instrument requiring minimal training

# Applications

**Xdrop fits into key workflows in cell and gene therapy research, molecular biology, and other life sciences.**

- Single-cell functional analysis of immune cells:
  - Finding the most active enzyme and antibody secretors
  - Identifying the most active killer cells
- Mapping CAR cassette integration
- Validating CRISPR edits and other gene edits
- Screening for rare enzyme variants
- Mapping cell population heterogeneity
- Single-cell whole genome amplification



## Find the right cartridge for your applications

Cartridge type	Xdrop DE20	Xdrop DE50	Xdrop SE85
Droplet inner diameter	15 µm	60 µm	85 µm
Droplet volume	1.6 pl	100 pl	300 pl
Droplets per lane per run	8 million	1 million	65 thousand
Run time (for up to 8 samples)	40 minutes	8 minutes	45 seconds
Sample type	DNA, microbial cells, organelles	DNA, microbial cells, mammalian cells	DNA, microbial cells, mammalian cells

Contact us at [samplix.com/contact](https://samplix.com/contact).

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