Discover Xdrop® for cells



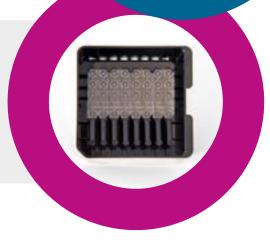
Microfluidics technology that enables rapid and accurate functional analyses with single-cell resolution

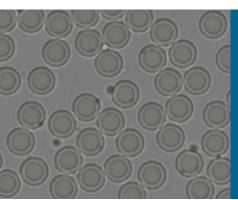
Xdrop

- Automated generation of picoliter double-emulsion droplets to encapsulate living cells for incubation, analysis, and sorting
- An intuitive touchscreen interface
- Rapid droplet production times
- A benchtop footprint that any lab can accommodate

Xdrop DE Cartridges

- Fully integrated production with all liquids contained in the cartridges, simplifying handling and reducing contamination risk
- Process up to eight samples per run
- Encapsulate millions of cells per run



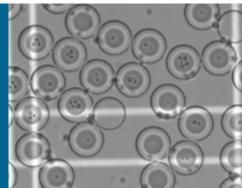


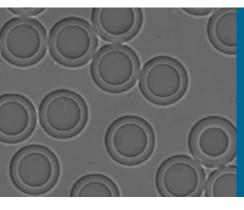
Xdrop DE20 Cartridge

Up to 8 million DE20 droplets per lane in just 40 minutes

Left: DE20 droplets in growth medium

Right: Yeast cells in DE20 droplets





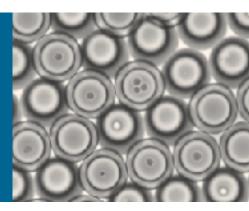
Xdrop DE50 Cartridge

Up to 500,000 DE50 droplets per lane in just 8 minutes

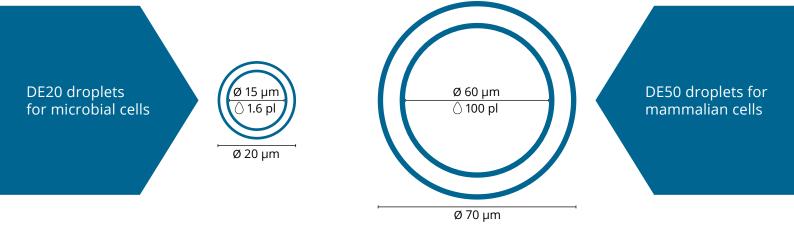
Left: DE50 droplets in growth medium

Right: Natural killer cells in DE50

droplets



Which double-emulsion droplets are the right home for your cell incubation and analyses?



Main features	DE20	DE50
Compatible with cells up to 6 µm in diameter and nuclei	~	~
Compatible with mammalian cells	×	~
Compatible with proteins, including antibodies and cytokines	~	~
Uniform droplet size (<5.5% variation in size)	~	~
Permeable to gases	~	~
Compatible with a range of growth media	~	~
Suitable for incubation of encapsulated cells in CO ₂ incubators	~	~
Compatible with flow cytometry and FACS	~	~
Possible to recover droplet content, including living cells	~	~
Suitable for encapsulating DNA and RNA for genomics workflows, including in-droplet PCR	~	*

Learn more at samplix.com

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