

Microfluidic Consumable and Accessory Products

Specialist Research Chemicals

Sphere Fluidics' specialist chemicals for reproducible picodroplet applications.

- ◆ **Pico-Surf™** is a range of biocompatible surfactants that act to stabilise picodroplets and their cellular or molecular contents.
- ◆ **Pico-Break™** is used to release the contents of a picodroplet emulsion.
- ◆ **Pico-Glide™** is a coating agent used on microfluidic biochips and other devices to minimise non-specific binding interactions, improving picodroplet stability and reproducibility.
- ◆ **Pico-Wave™** is a diluent for routine use with Pico-Surf™ (construct a non-standard surfactant concentrations)



Product Name	Volume	Product Type	Product Code
Pico-Surf™ 1 (2% (w/w) in FC-40)	10ml	Surfactant	C011
Pico-Surf™ 1 (5% (w/w) in FC-40)	10 ml	Surfactant	C012
Pico-Surf™ 1 (2% (w/w) in FC-40)	50 ml	Surfactant	C013
Pico-Surf™ 1 (5% (w/w) in FC-40)	50 ml	Surfactant	C014
Pico-Surf™ 1 (2% (w/w) in Novec™ 7500)	10 ml	Surfactant	C021
Pico-Surf™ 1 (5% (w/w) in Novec™ 7500)	10 ml	Surfactant	C022
Pico-Surf™ 1 (2% (w/w) in Novec™ 7500)	50 ml	Surfactant	C023
Pico-Surf™ 1 (5% (w/w) in Novec™ 7500)	50 ml	Surfactant	C024
Pico-Break™ 1	10 ml	Emulsion Breaking Solution	C081
Pico-Break™ 1	50 ml	Emulsion Breaking Solution	C082
Pico-Glide™ 1	5 ml	Microfluidic Biochip Coating Agent	C071
Pico-Glide™ 1	10 ml	Microfluidic Biochip Coating Agent	C072
Pico-Glide™ 1	25 ml	Microfluidic Biochip Coating Agent	C073
Pico-Wave™ 40	100 ml	Diluent	C091
Pico-Wave™ 40	250 ml	Diluent	C092
Pico-Wave™ 40	500 ml	Diluent	C093
Pico-Wave™ 7500	100 ml	Diluent	C094
Pico-Wave™ 7500	250 ml	Diluent	C095
Pico-Wave™ 7500	500 ml	Diluent	C096

Microfluidic Biochips

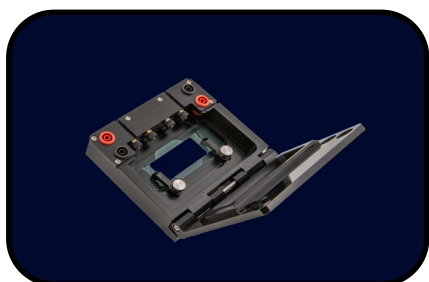
Sphere Fluidics offers a range of polydimethyl siloxane (PDMS) biochips which has been specially designed and developed to reproducibly generate or sort picodroplets. The biochips offer excellent transparency for easy picodroplet visualisation and their precise design and construction ensure the generation of reliable and consistent picodroplets with a range of volumes from around 35—1,000 picolitres.



Product Name and Description	Nozzle (µm)	Picodroplet volume range	Product Code
Pico-Gen™ single aqueous, oil inlet filter biochip	40 x 40	35 - 220 pL	C101
Pico-Gen™ single aqueous, oil inlet filter biochip	60 x 60	150 - 550 pL	C102
Pico-Gen™ single aqueous, oil inlet filter biochip	80 x 80	500 - 1,000 pL	C103
Pico-Gen™ single aqueous, two inlet filters biochip	40 x 40	35 - 220 pL	C104
Pico-Sort™ generation / sorting biochip	n/a	400 - 700 pL	C201
Pico-Sort™ reinjection / sorting biochip	n/a	400 - 700 pL	C202

Accessory Products

Pico-Safe™ Laser and Electrical Safety Box



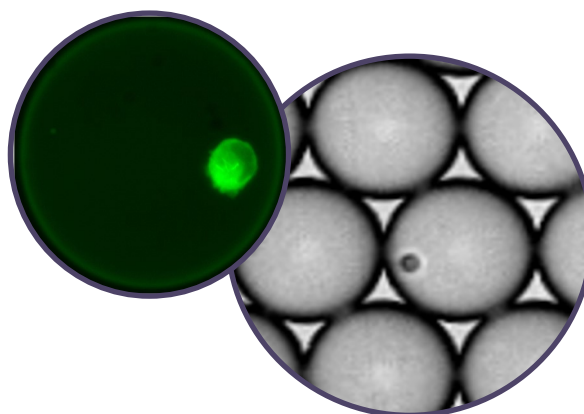
The **Pico-Safe™ Laser and Electrical Safety Box** is a microfluidic biochip holder which provides an added layer of safety for the operator of the Single Cell Assay and Isolation System. Pico-Safe™ allows rigid fixing and positioning of a microfluidic biochip, allowing alignment of the biochip with the laser spot via the microscope stage control. Pico-Safe™ acts to isolate the laser light and high voltage signals to provide the highest levels of safety.

Applications

Picodroplet technology is a rapidly growing area of interest and has many potential applications. This technology is particularly important where experiments need to be conducted on only a few nanolitres, or picolitres of sample containing cells, proteins or other molecules of interest. This miniaturised and controlled approach enables scientists to perform thousands to millions of reactions rapidly and simultaneously.

Our products have been specially developed to enhance processes within a number of research applications, including (but not limited to):

- ◆ single cell isolation
- ◆ single cell analysis
- ◆ cell secretion assays
- ◆ cell and molecular biology assays
- ◆ cell growth studies
- ◆ mass spectrometry



Benefits

Our products have been created and developed over many years to ensure setting up your microfluidic experiment is as easy and efficient as possible. They are ready to use and rigorously tested to ensure quality and reproducibility. Please see some benefits of our products below — for further details specific to each individual product please visit our website www.spherefluidics.com or contact us.

- ◆ Enable the reliable formation and stabilisation of picodroplets with a wide range of diameters and volumes.
- ◆ Can be used directly – no further manipulation is needed.
- ◆ Long shelf life.
- ◆ High purity.
- ◆ Animal Origin Free.
- ◆ All products undergo rigorous QC and QA testing, including NMR, FT-IR and testing in biological assays.
- ◆ Experienced scientific and application support available.

Contact us

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