



Pico-Wave™

A biocompatible diluent oil optimal for diluting Pico-Surf™ products



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What is Pico-Wave™?

Pico-Wave™ is a diluent comprising a fluorinated oil which is well suited for diluting Pico-Surf™ for use with your specific applications. Pico-Wave™ has been especially formulated for stability, biocompatibility and reproducible performance for your picodroplet studies. Pico-Surf™ is Sphere Fluidics' proprietary biocompatible surfactant which can be used in a variety of microdroplet and picodroplet applications as it acts to stabilise picodroplets and their cellular or molecular contents.

Pico-Surf™ is available pre-dissolved at 5% (w/w) and 2% (w/w) concentrations in either of two fluorocarbon oils, Novec™ 7500 or Fluorinert™ FC-40.

If you would like to use Pico-Surf™ at different concentrations, you can easily further dilute it using Pico-Wave™. Please note that Pico-Wave™ 40 should be used only with FC-40™ based Pico-Surf™, whereas Pico-Wave™ 7500 should be used only with Novec™ 7500 based Pico-Surf™.

Why choose Pico-Wave™?

- ✓ Optimised for use with Pico-Surf™ and our other specialist chemicals
- ✓ Compatible with our range of Pico-Gen™ microfluidic biochips.
- ✓ Especially formulated to be biocompatible and stable.
- ✓ High purity and long shelf life (up to one year).
- ✓ Animal Origin Free.
- ✓ Experienced scientific and application support available.

Pico-Wave™ Product Range

The following products are available in the Pico-Wave™ range:

Product Name and Description	Volume	Product Code
Pico-Wave™ 40	100 ml	F301
Pico-Wave™ 40	250 ml	F302
Pico-Wave™ 40	500 ml	F303
Pico-Wave™ 7500	100 ml	F304
Pico-Wave™ 7500	250 ml	F305
Pico-Wave™ 7500	500 ml	F306

Pico-Wave™ General Information

Pico-Wave™ is provided as a clear and colourless liquid in plastic amber bottles. It is a non-flammable, non-conductive and chemically and thermally stable fluid, making it compatible with most materials.

Pico-Wave™ is ideal for diluting Sphere Fluidics' standard Pico-Surf™ products. The resultant diluted Pico-Surf™ solutions are then suitable for picodroplet generation in a wide variety of cell and molecular biology assays. Optimal Pico-Surf™ concentrations for specific applications should be determined experimentally by the user.

Stable for 12 months when stored as recommended. For research use only.

Safety Notes

See the Pico-Wave™ Material Safety Data Sheet.

Contact

If you have any queries, please do not hesitate to email us at:

Support@spherefluidics.com

Please mention 'Pico-Wave™' in the subject line.

Accreditation

Sphere Fluidics is an ISO9001:2015 accredited company for the provision of Life Sciences products and services.



Sphere Fluidics Limited

Sphere Fluidics (SF) is an established Life Science Tools company providing unique collaborative services and products for single cell analysis, engineering and isolation. The Company has patented novel biochip systems, including specialist chemicals, which automatically process millions of miniaturised tests in picodroplets (*i.e.* small compartments of a picolitre volume). The technology enables the rapid screening and characterisation of single cells and their products in the search for unique and highly valuable variants among huge cell populations. Sphere Fluidics' versatile technologies assists the discovery and development of new biopharmaceuticals, enzymes, cell therapies and innovative ways to study diseases, such as cancer, auto-immune disorders and infectious diseases, while saving time and reducing costs.

For more information please visit: www.spherefluidics.com.

Pico-Wave™, Pico-Surf™ and Pico-Gen™ are trademarks of Sphere Fluidics Limited.

Fluorinert™ and Novec™ are trademarks of 3M.



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