

# Pico-Safe™

Laser and Electrical Safety Box



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## What is Pico-Safe™?

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The Pico-Safe™ biochip holder allows rigid fixing and positioning of a microfluidic biochip allowing alignment of the biochip with the laser spot via the microscope stage control. The Pico-Safe™ also acts to isolate the laser light and high voltage signals from the User, thus providing increased safety for the User.

Designed for use with the Single Cell Assay and Isolation System to provide essential safe operation when using our sorting microfluidic biochips.

## Why should I choose Pico-Safe™?

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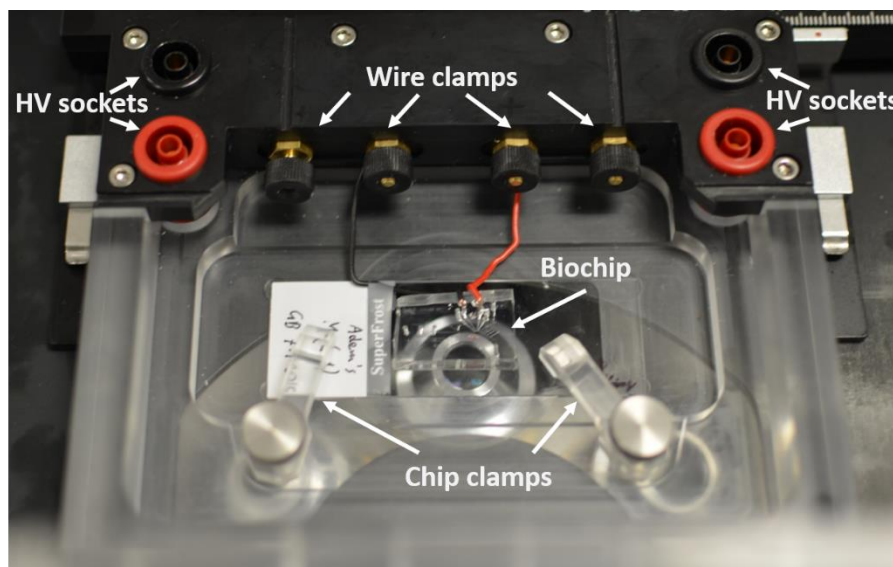
- ✓ Fully compatible with the Single Cell Assay and Isolation System.
- ✓ Isolates laser light and high voltage signals from the User for added safety.

## How do I use Pico-Safe™?

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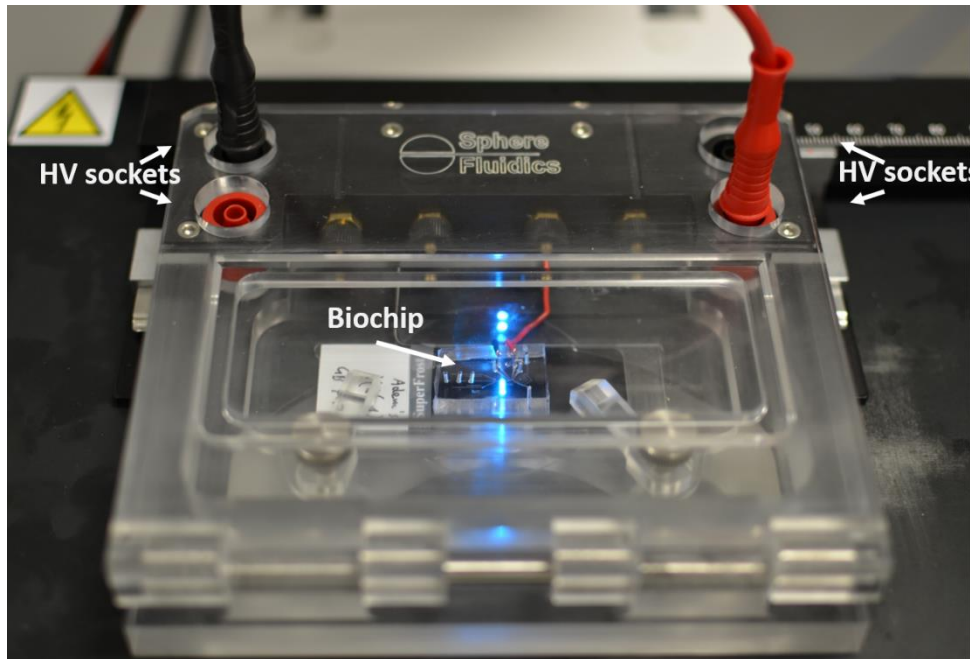
For rigid fixing and positioning of the microfluidic biochip, it should be mounted in the Pico-Safe™ biochip holder. This will allow alignment of the biochip with the laser spot via the microscope stage control.

### How the Pico-Sort™ biochip should be mounted in the Pico-Safe™ holder



The biochip is held in place using the chip clamps and electrical connections via the wire clamps. First, unscrew the clamps slightly to allow enough room for the wire. Ensure the end

of the wire is placed around the screw, then screw the clamps back on tightly. Once connected mechanically and electrically, the lid of the Pico-Safe™ enclosure can be closed. High voltage leads can then be plugged into the HV sockets (sockets shown above, with lid open for ease of visualisation).



The image above shows the biochip mounted in the Pico-Safe™ housing with the lid closed (the filter is not included in this example to illustrate laser positioning) and optical illumination and electrical connection to the HV amplifier. User access to the high voltage signals or direct exposure to the laser light is reduced. Note, do not remove the filter ever as you will compromise safety.

## Contact

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

[Support@spherefluidics.com](mailto:Support@spherefluidics.com)

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

## Accreditation

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



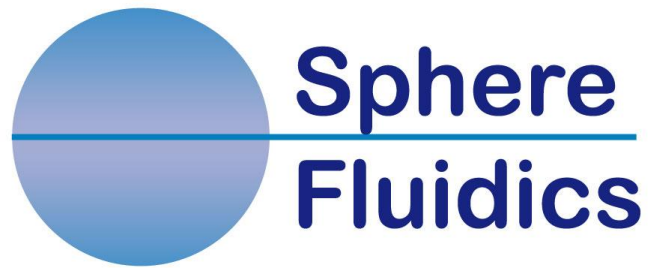
## Sphere Fluidics Limited

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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](http://www.spherefluidics.com).

Pico-Safe™ is a trademark of Sphere Fluidics Limited.



[www.spherefluidics.com](http://www.spherefluidics.com)

Sphere Fluidics Limited  
The Jonas Webb Building  
Babraham Research Campus  
Cambridge  
Cambridgeshire  
CB22 3AT  
United Kingdom

Tel: +44 1223 802400  
Fax: +44 1223 804210

Sphere Fluidics Inc.  
PO Box 9509  
Trenton  
NJ 08650  
USA

Tel: +1 888 258 0226