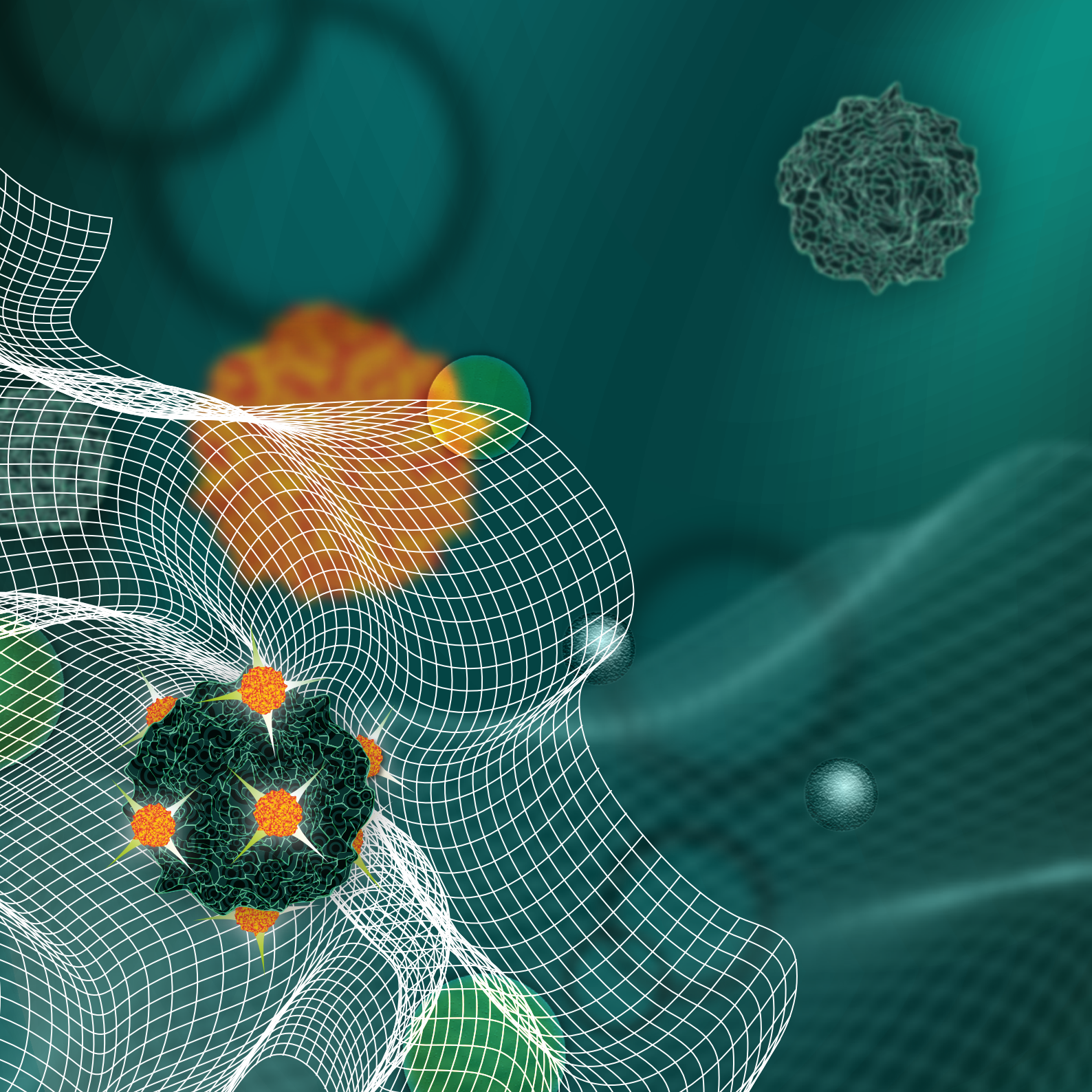


The World of Particle Separation



pluriSelect
usa



Tools for separation according

Particle Size (Page 2-7)

- 14 mesh or membrane-based product families for targets between 1 μm and 2000 μm

Cell weight (Page 8-9)

- 7 density media
- Devices to simplify the density gradient separation

Specific cell epitopes (Page 10-11)

- PluriBeads for positive cell separation
- PluriSpin for untouched cell separation (enrichment or depletion)

Separation by size

Our pluriStrainer Families



PluriStrainer

The PluriStrainer is a versatile sieving device for particle/cell separation between 1,000 μm and 5 μm diameter.

It fits into any 50 ml standard tube. It can be flipped over to flush back the sample from the mesh.

A funnel increases the strainer volume from 6 to 24 ml.

A connector ring with a luer-lock cap generates an air-tight working compartment strainer-tube. Closed cap allows to treat the sample on the mesh. The open cap can be used to increase flow by evacuating the 50 ml tube with a syringe.



Mini-Strainer

Mini-Strainers are designed for small sample volumes (up to 700 μl). They fit in nearly any reaction tube (15 ml to 1.5ml, 24 / 48 well plates). You can choose between 5 μm and 200 μm PET mesh size. The 40 μm and 70 μm are mostly used for sample preparation for further FACS analysis.

Mesh sizes of 20 μm and smaller need support to increase the sample flow. This can be achieved by a short centrifugation or the use of our.



Mini-Strainer Membrane

The Mini Membrane Strainer features a PET membrane with pore openings of 1 μm , 3 μm , 5 μm , and 8 μm , achieved through etching technology. These strainers are compatible with 24 well plates and can be submerged with the lid closed.



Mini-Strainer-Aid

The Mini-Strainer-Aid is designed to facilitate the filtration of small volumes using the Pluriselect Mini-Strainer family. The non-slip surface of the adapter ensures a form-fitting and stable connection between the pipette tip, adapter, and cell sieve. This allows for a controlled, stepwise application of the sample material and contributes to reproducible filtration performance.

The Mini-Strainer-Aid is available in two versions: compatible with pipette tips or with serological pipettes. Additionally, both versions are suitable for use with single-use syringes with Luer fittings.



The most time saving and easy to handle strainer for small volumes is our



Pipette-Strainer

The Pipette-Strainer is designed as a two-way filtration device for small volumes. The perforated elastomer top is assembled to the strainer housing. It comes in two versions, the Pipette-Strainer-T, opening holds standard 1 – 5 ml pipette tips. The Pipette-Strainer-S is designed for serological pipettes with a volume of up to 10 ml.



Perfect for primary tissue culture generation

Separation by size

Our pluriStrainer Families



SnapCap Strainer

Time and money saving simple straining devices.

The snap-lid is easy to open with the thumb. It is a versatile and cost-effective sample preparation device for efficient removing of detritus!

SnapCap Strainer using the screw cap of standard 50 ml test tubes as housing for the nylon mesh. It combines test tube with strainer in one product. The nylon-mesh based SnapCap family comes in the typical used mesh sizes of 40, 70 and 100 μm in two versions, the cost-efficient, simple strainer. The improved SnapCap Strainer is equipped with an elastic sealing which keeps the tube and SnapCap Strainer airtight and leakproof. All nylon-mesh based SnapCap Strainers are sterile.



SnapCap Extraction Strainer

The SnapCap Steel Extraction Strainer is a device to extract chemicals and/or particles from solids. The metal strainer is glued inside the snap cap and has a capacity of 9 cm^3 . The elastomer sealing provides an airtight closure. The SnapCap Extraction Strainer can be rotated overhead.



Uberstrainer

The German word “Über” stands for “more as” or “everything about”. The Überstrainer is a module-based sample preparation tool.

It enhances the capabilities of mesh-based methods for selection, separation, and isolation tasks. The modular design provides flexibility and multiple functions. The usable mesh surface is 3 cm^2 .

Featuring a screw cap with a luer-lock adaptor, a 6 ml housing with integrated mesh available in 15 sizes (ranging from 1 μm to 500 μm), a connector ring with a luer-lock port for a secure connection to a standard 50 ml tube, and an adaptor to fit into 15 ml, 2 ml, and 1.5 ml standard tubes, this device offers users a wide range of separation options under various pressure conditions.



Syringe-Strainer

The Syringe-Strainer is one part of the Uberstrainer. It can be attached to either a syringe or a tube using the screw cap with the Luer-Lock port. The 6 ml housing can be used as recovering space for target material. It is available in 15 different mesh sizes ranging from 1 μm to 500 μm . The usable mesh surface is 3 cm^2 . The Syringe-Strainer can be used with negative pressure too.



Separation by size

Our pluriStrainer Families



Re-Strainer (In-Line-Strainer)

The Re-Strainer has a 6 ml recovery reservoir which can be accessed by unscrewing the cap. The Re-Strainer has two female luer-lock-ports. These ports can be used to connect several Re-Strainer to a filter cascade (male to male luer-lock connector) or integrate the Re-Strainer as an in-line-strainer via luer-lock tube adaptor. You can choose from 15 different mesh sizes (1 μm to 500 μm). The usable mesh surface is 3 cm^2 . The Re-Strainer shows no function abnormalities by exposing the system to pressure of 3,5 g/cm^2 .



In-Line-Strainer 50 mm

Particularly suitable for general laboratory filtration of large volumes to retain particles larger as the chosen mesh size. The hose connector is suitable for hoses with an inner diameter of 6 mm (0.25 inch).

The nylon mesh comes in 5 different sizes (40 μm to 500 μm).



pluriMulti-Well-Strainer

Our pluriMulti-Well-Strainers come with 6- or 12-well strainer plates. They fit into most of the available 6- and 12- Tissue Culture plates. The pluriMulti-Well-Strainers are available in two mesh sizes (70 and 200 μm).



pluriStrainer Maxi (Bottle Top Filter)

The pluriStrainer Bottle Top Filters are filtration device for laboratory use, which has been specially developed for the separation of large quantities of sample material and the purification of liquids.

Our pluriStrainer Maxi is equipped with 13 mesh sizes fits all commercially available GL45 threads and can be used for a wide range of applications, for example in environmental or water sample analysis processes, microplastic filtration or cell group fractionation.

In addition, the pluriStrainer Maxi has a special lid that enables automatic refilling. The sample material can be sucked directly from the sample container into the sieve via this lid. Hose connections on the filter unit and lid allow the use of low pressure for filtration and automatic refilling.

The hose connector is suitable for various hose diameters.



Steel Basket-Strainer

The Steel Basket-Strainer is designed to fit into a standard 50 ml tube, with a length of 45 mm and capable of retaining a volume of 20 ml. Constructed from non-magnetic SS 316 steel, it offers excellent mechanical stability, making it suitable for extracting liquids from porous materials. With a capacity to handle 30 g of solid material at 2,000 x g, it can be reused multiple times. Heat sterilization or autoclaving is recommended for maintenance.



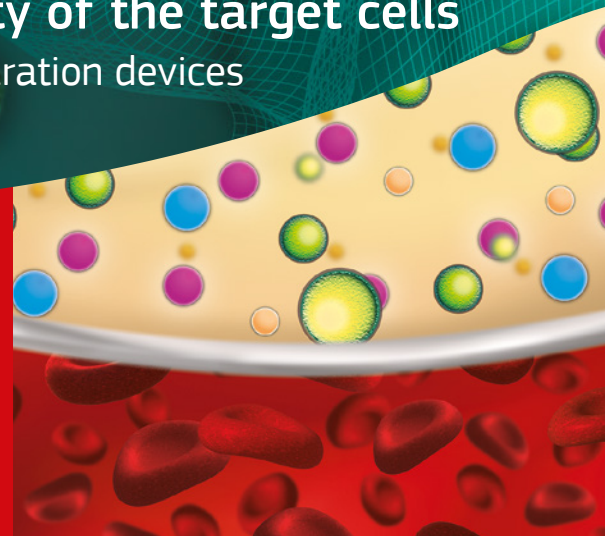
Separation by specific density of the target cells

Our Density Gradient Media and separation devices

Density gradient centrifugation

Ready-to-use media for the isolation of specific cell populations using density gradient centrifugation.

pluriSelect offers you media with different densities for a wide range of requirements.



Density Gradient Media

Density Gradient Centrifugation is the most common method for separating Peripheral Blood Mononuclear Cells (PBMC)- containing lymphocytes and monocytes) from red blood cells (RBC). Based on different density of each blood cell population they can be separated by a single step centrifugation with the corresponding density gradient medium.

Besides the most common solution for the isolation of PBMCs (density 1.077 g/ml) pluriSelect offers 6 optimized density gradient media for the isolation of Leukocytes, Monocytes, Platelets and PBMCs from older blood.

If none of these options suit your needs, the HDSM and DDM Spin Medium Set allows you to customize the density for isolation from animal blood or similar samples, with densities ranging between 1.0 and 1.1 g/ml.



Separation devices

Our two different devices pluriMate® and TwinSpin® makes it possible to separate the target fraction independent if have a higher density or a lower density as the impurities.



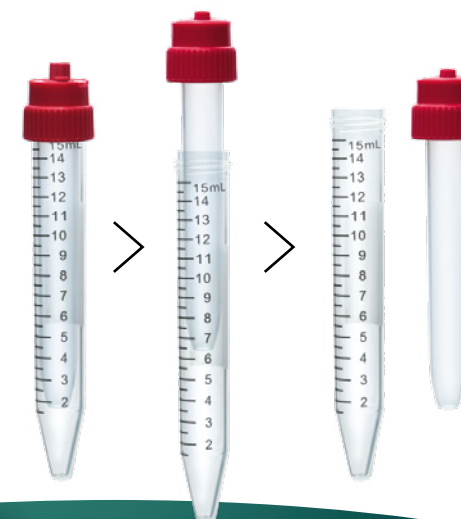
PluriMate

Empty tubes filled with separation medium for the rapid isolation of cells. Empty tubes can be used with all separation media available on the market.



TwinSpin

TwinSpin centrifuge tubes for rapid sample preparation. The tubes can be filled with separation medium to achieve optimum separation of cells from whole blood and bone marrow.

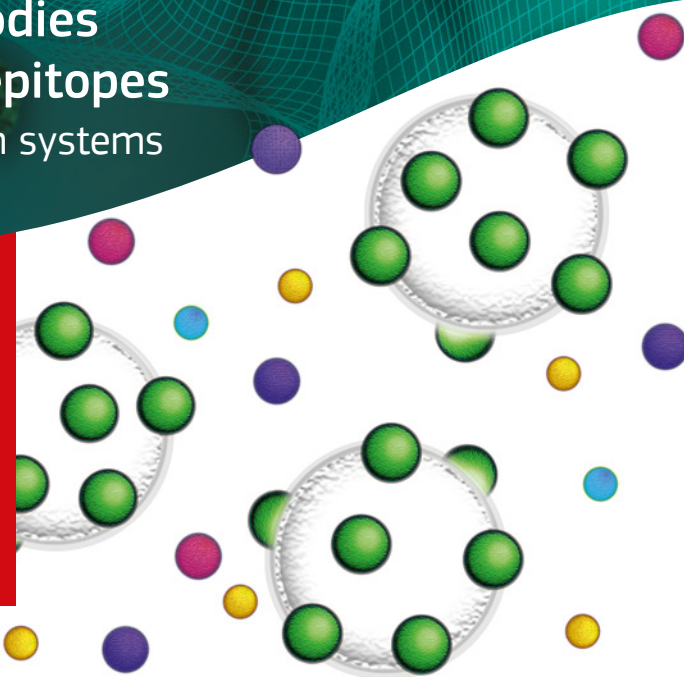


Cell separation using antibodies against specific membrane epitopes

Our positive and negative separation systems

Positive cell separation

Temporary antibody-mediated binding of target cells to pluriBeads. After separation from unwanted cells using a pluriStrainer, the target cells can be detached and are available with high purity for subsequent experiments.



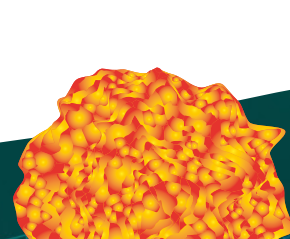
pluriBead

Ready-to-use pluriBead products for positive separation of various human and murine cell types. Available in the bead sizes S- and M-pluriBeads.



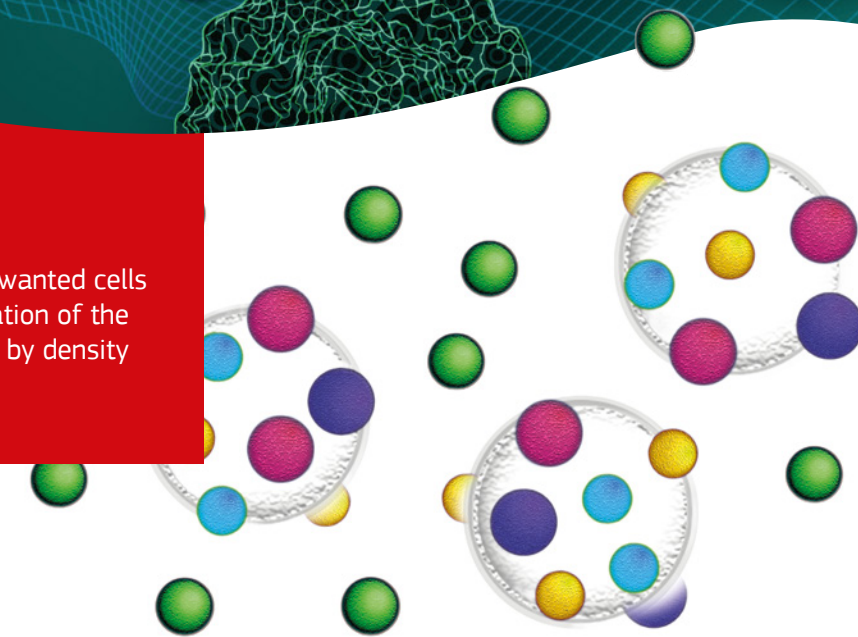
pluriBead Universal

Would you like to work with your own antibody? pluriBead universal is available for 6 different host species. In sizes S and M pluriBead for coating with your own IgG antibody.



Negative cell separation

The target cells remain untouched; all unwanted cells are bound to pluriSpin beads. The purification of the target cells is carried out magnetically or by density gradient centrifugation.



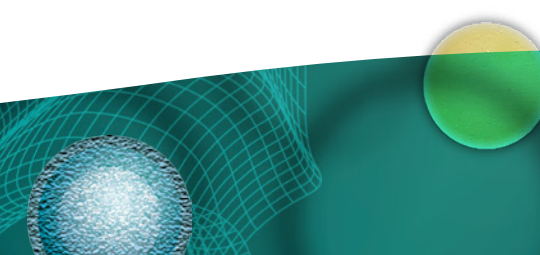
pluriSpin Enrichment

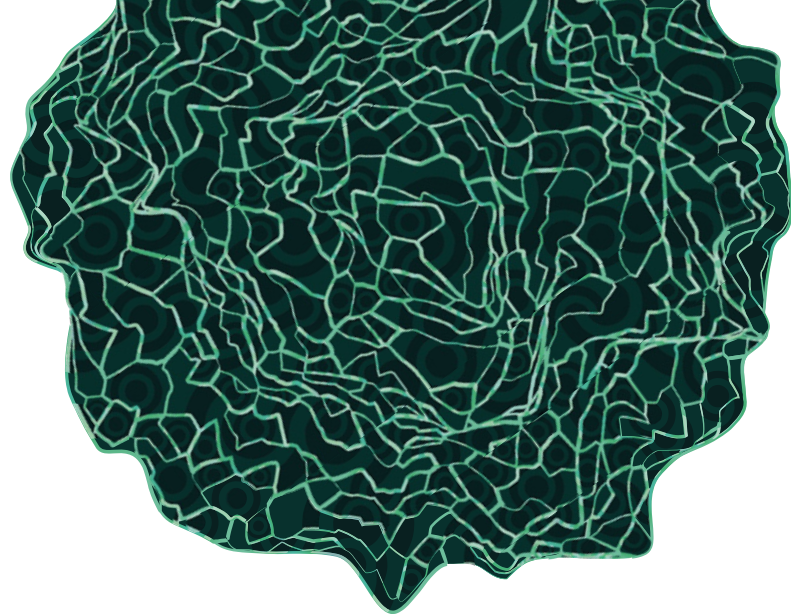
With the pluriSpin products for enrichment, all unwanted cells are marked and removed from the sample by pluriSpin.



pluriSpin Depletion

With the pluriSpin products for depletion, specific cell populations are targeted, marked, and removed from the sample by pluriSpin.





Pluriselect-usa,
Inc. 2030 Gillespie Way #103
El Cajon, 92020 CA, USA

Phone +1 619 202 4297

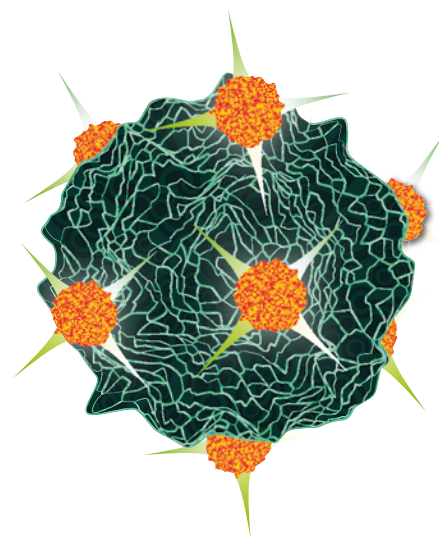
Fax: +1 619-828-8003

support@pluriselect-usa.com

www.pluriselect.com

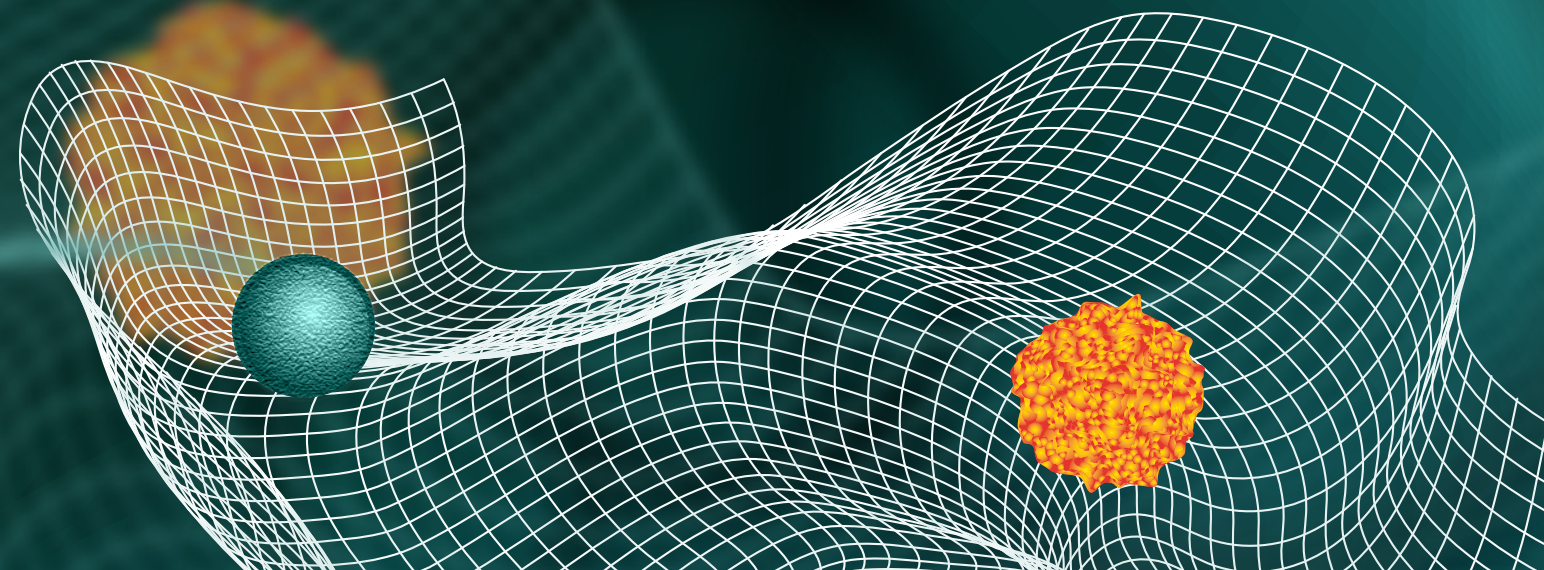
www.uberstrainer.com

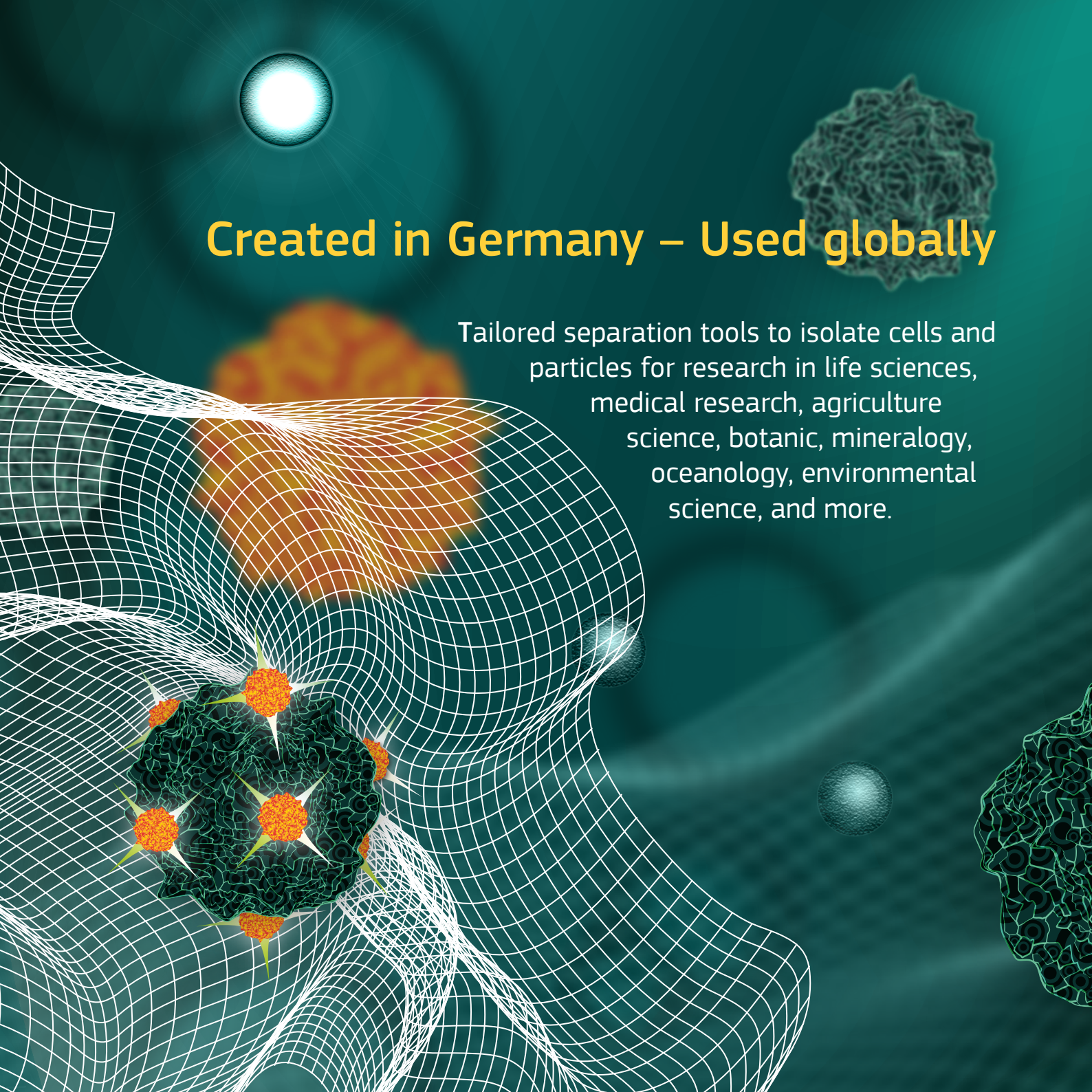
Find out more here



We are pluriSelect, a group of biotechnology companies originated in Germany. We are dedicated to developing innovative products and technologies to solve scientific challenges. With our in-depth expertise and many years of experience, we deliver highly optimized solutions for particle, cell and protein separation worldwide. Our products support researchers in a wide range of applications - from immunology to other pioneering areas of biomedical research.

Our ultimate goal is to offer you not only first-class products, but also outstanding service. We understand the challenges of scientific work and are committed to providing you with customized solutions that ensure the success of your experiments. With pluriSelect at your side, you can rely on innovative technologies, the highest quality and a collaborative partnership.





Created in Germany – Used globally

Tailored separation tools to isolate cells and particles for research in life sciences, medical research, agriculture science, botanic, mineralogy, oceanology, environmental science, and more.