

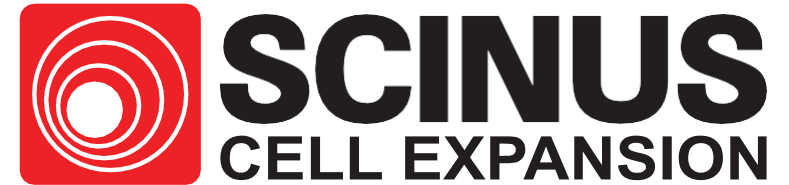
THE SCINUS CELL EXPANSION NETHERLANDS B.V.

Scinus Cell Expansion Netherlands BV (Bilthoven, The Netherlands) is a biotech company, developing innovative technologies for cell production. Our mission is to make cell therapies accessible for a global patient population. The core activity of Scinus is the development and marketing of an innovative bioreactor platform technology for the cell culture industry.

The Scinus Cell Expansion system offers a cost-effective, controlled alternative to conventional cell production strategies. The patented technology allows cell culture professionals to perform the entire cell expansion process, from biopsy to over 1 billion cells, within one closed system. Therefore, our bioreactor technology is ideal for scale-out of (stem) cell culture.

Scinus Cell Expansion also offers services to assist its clients in the translation to a commercial-scale GMP production strategy for their cell products.

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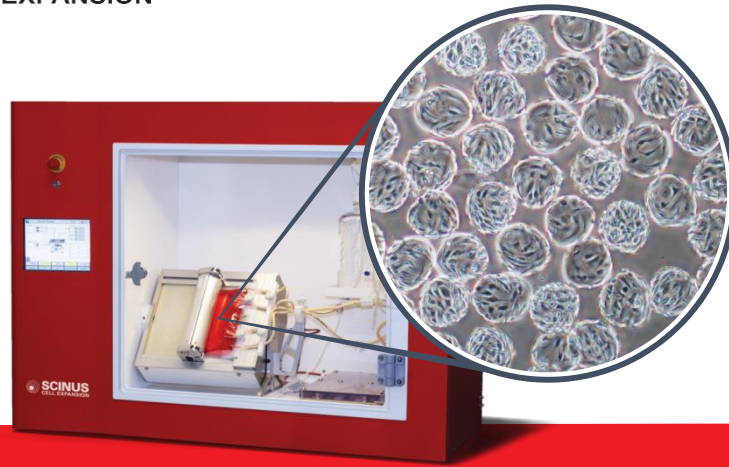


CLOSED CONTROLLED BIOREACTOR

supporting GMP cell therapy production

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THE SCINUS CELL EXPANSION SYSTEM

is a fully closed, controlled bioreactor system for automated cell cultivation. It consists of a proprietary hardware enclosure combined with a single-use bioreactor bag, in which cells are grown on microcarriers

enables you to grow clinically relevant cell numbers directly from a biopsy, due to its unique expansion technology (volume range 100 – 1400 mL). No need to passage your cells as you expand

features a patented agitation and expansion platform that maintains a homogenous environment, while minimizing shear stress

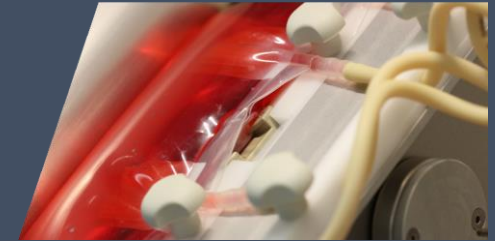
uses trusted, industry standard, software that ensures an optimally controlled (pH, oxygen, temperature) culture environment

allows you to take fully representative (cell) samples at any point during culture

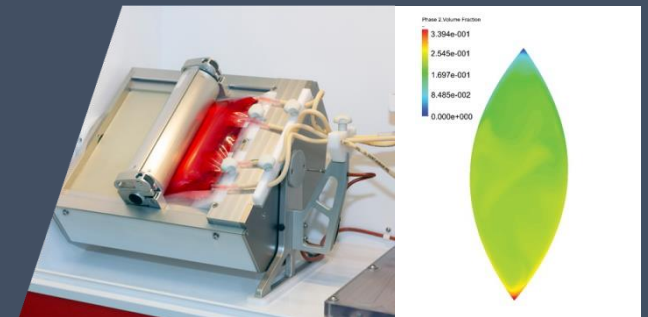
is designed for use in GMP production. Bioreactor hardware is CE marked and is fully compatible with third-party Part11-compliant software. The single-use bioreactor bag uses USP Class VI plastics and is tested extensively for biocompatibility.

can be easily integrated with various upstream and downstream processing solutions through sterile welding

results in significant cost reduction, due to reduced operator involvement and medium expenditure. The system can be operated outside of stringent clean room environments thanks to its closed design.



Continuously monitor and control the state of your culture through the integrated sensors for pH, oxygen and biomass



Maintain a homogenous, low shear environment with the unique agitation and expansion platform

SPECIFICATIONS

| Parameter | Range |
|------------------------|---------------------------|
| Volume range | 100 mL – 1400 mL |
| Rocking angle | 0 – 180 ° |
| Rocking speed | 1 – 500 °/s |
| Acceleration | 10 – 500 °/s ² |
| Deceleration | 10 – 500 °/s ² |
| Vertical hold | 0 – 7200 s |
| Horizontal hold | 0 – 86400 s |
| Mix cycles* | 0 – 20000 |
| DO | 0 – 100% |
| pH | 5.5 – 8.5 |
| Temperature | Ambient to +45 °C |

* Number of rocking cycles between two horizontal holds