

High throughput made easy

Greiner Bio-One adds 96 well options to its ThinCert portfolio for high-throughput cell culture applications

Frickenhausen, 14th of December 2023 – Tried-and-tested ThinCert cell culture inserts from Greiner Bio-One are a global success story in sophisticated cell and tissue culture applications. Adding new 96 well HTS products to the existing 6, 12 and 24 well portfolio is perfect for high-throughput applications and also minimises the costs per assay.

Membrane-based cell culture inserts such as the ThinCert inserts from Greiner Bio-One enable in vitro testing of specific tissue models (e.g., endothelia and epithelia) in transport, secretion, diffusion, migration, invasion and co-culture studies using air-lift and submersed culture methods. They are utilised in basic research and drug discovery, representing an ethically, scientifically and economically advantageous alternative to animal testing.

The existing ThinCert portfolio offers inserts for multiwell plates with a variety of membrane types and pore sizes/densities. Our latest addition is the ThinCert 96 well HTS insert, which supports highly parallelised application. Furthermore, miniaturisation and the reduced use of cells, media and reagents result in much lower costs per assay.

Each ThinCert 96 well HTS insert consists of a 96 well porous membrane plate and a receiver plate. The tissue culture treated PC membrane allows for an ideal exchange of nutrients and substances, creating in vivo-like cultivation conditions to facilitate optimal cell growth, monolayer formation, and tissue differentiation. The precise fit of the membrane plate prevents any potential wicking effect – that is to say, the undesirable formation of liquid bridges – thereby ensuring stable and reproducible assay conditions.

Wide range of applications thanks to varied membrane configurations

Analogous to the single inserts, the HTS version supports various applications in the field of drug screening as well as the exploration of physiological and pathological processes.

The HTS insert with a **pore size of 0.4 µm** is ideally suited for the generation of tissue models (e.g., endothelia and epithelia) in air-lift or submersed cultures that undergo high-throughput analysis in transport, permeability and co-culture studies.

Greiner Bio-One offers a unique variant with a special pore configuration that combines excellent permeability and transparency for microscopic monitoring of assays. An alternative with optimum permeability based on a high pore density is also available.

ThinCert HTS inserts with **pore sizes of 3 µm and 8 µm** are particularly suited to testing cellular behaviour in motility studies. Their high transparency enables visual monitoring of mechanisms such as cell migration and invasion, which play a key role in physiological and pathological processes, including immune cell migration, the wound-healing process and tumour tissue metastasis.

ThinCert® is a registered trademark of Greiner Bio-One GmbH.

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Greiner Bio-One International GmbH

Greiner Bio-One specialises in the development, production and distribution of high-quality plastic laboratory products. The company is a technology partner for hospitals, laboratories, universities, research institutes, and the diagnostic, pharmaceutical and biotechnology industries. Greiner Bio-One is split into three divisions – Preanalytics, BioScience and Sterilisation. As an Original Equipment Manufacturer (OEM), Greiner Bio-One provides individual solutions in the area of custom-made design developments and production processes for the life sciences and medical sectors. In 2022, Greiner Bio-One International GmbH generated a turnover of 693 million euros and had over 2,800 employees, 29 subsidiaries and numerous distribution partners in over 100 countries. Greiner Bio-One is part of Greiner AG, which is based in Kremsmünster (Austria).

Greiner Bio-One BioScience division

The BioScience division of Greiner Bio-One ranks among the leading providers of specialised products for the cultivation and analysis of cell and tissue cultures. Drawing on decades of experience with cryogenic sample storage, Greiner Bio-One also offers solutions for automated storage systems in biobanks. In addition, expertise in the development and production of microplates for high-throughput screening enables extremely fast and efficient drug screening for both industrial and research applications. All development, manufacturing and sales operations are controlled from the German headquarters of the BioScience division in Frickenhausen.

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