



AUTOMATION MADE EASY

STERILE

FREE OF
detectable
DNase

FREE OF
detectable
human DNA

FREE OF
detectable
RNase

 non-
cytotoxic

 non-
pyrogenic

THINCERT®

96 WELL HTS INSERT

For high-throughput transport studies and co-cultures

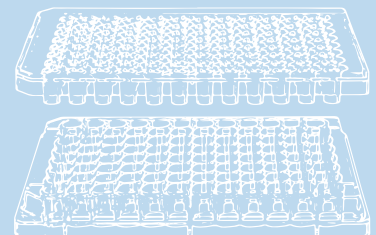
The new ThinCert® 96 well HTS insert is the optimal tool for scientists who want to generate tissue models (e.g., endothelia and epithelia) for transport, uptake, or co-culture studies in submerged as well as air-lift culture with an automation-friendly format.

By combining high membrane permeability and best possible transparency, Greiner Bio-One is offering a unique 96 well insert version, exclusively designed for applications that require both high diffusion rates as well as microscopic readouts. This is assured by a special pore arrangement and a high pore density of $2 \times 10^7/\text{cm}^2$.

In addition, a product version featuring a translucent membrane and a pore density of $1 \times 10^8/\text{cm}^2$ complements the portfolio for experiments that need highest diffusion rates while imaging is not required.

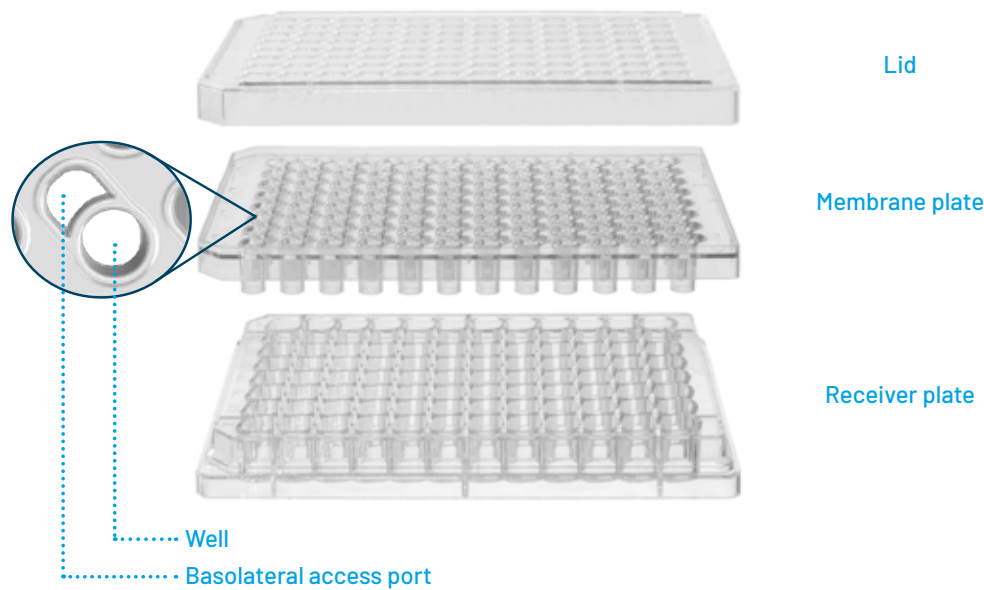
KEY FACTS

- / Optimal for transport and permeability studies, air-lift cultures, co-cultures, and toxicity screening
- / 96 well system for high-throughput applications
- / Automation-friendly design
- / Transparent polycarbonate membrane with $0.4 \mu\text{m}$ pore size
- / Reduced wicking effect
- / High membrane flatness for reproducible cell culture conditions



PRODUCT OVERVIEW

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The two-component system comprises a 96 well porous membrane plate manufactured entirely from polycarbonate (PC) and a corresponding polystyrene (PS) 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.

We have optimised the ports to ensure a convenient accessibility of the lower (basolateral) compartment with pipettes, automated liquid handling robots as well as electrodes for transepithelial electric resistance (TEER) measurements. The precise, well-centred fit of the membrane plate prevents wicking* and provides stable and reproducible assay conditions.

* Wicking: Undesired formation of a liquid bridge between upper and lower compartment due to capillary forces within the narrow space between membrane and receiver plate.

ThinCert® 96 Well HTS Insert (Membrane plates and receiver plates)

Growth area: 14 mm², Working volume (well of membrane plate): 15 - 160 µl,

Working volume (well of receiver plate): 120 - 300 µl, Lid: yes, condensation rings

Item no.	Pore density	Ø Pores	Optical features of membrane	Surface treatment	Sterile	Qty. inner / outer
655640	1 x 10 ⁸ /cm ²	0.4 µm	translucent	TC	+	1 / 5
655641	2 x 10 ⁷ /cm ²	0.4 µm	optimised transparency	TC	+	1 / 5

Receiver plates for ThinCert® 96 Well HTS Insert

Working volume (well of receiver plate): 120 - 300 µl, Lid: yes, condensation rings

Item no.	Growth area	Surface treatment	Sterile	Qty. inner / outer
655169	-	non-treated	+	8 / 32
655167	53 mm ²	TC	+	8 / 32