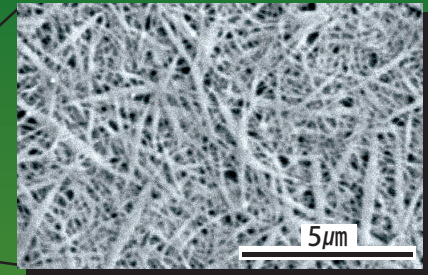
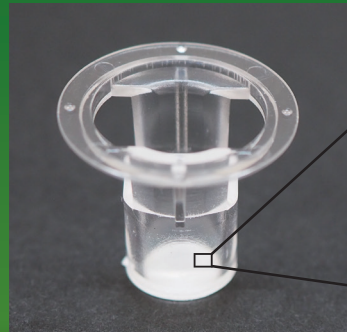
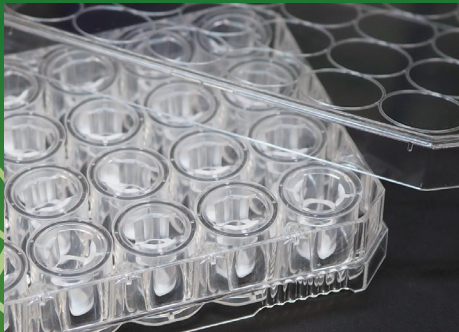


Scaffolds for 3D culture / co-culture **AteloCell<sup>®</sup>**

**July, 2023  
New  
release!**

# FibColl<sup>®</sup>

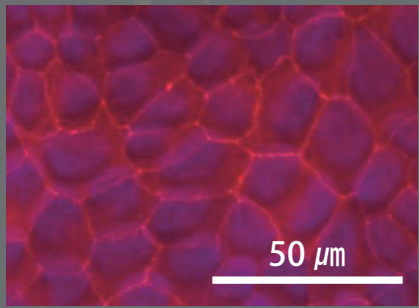
Highly permeable Atelocollagen Inserts for 24 well plates



## Features

- Models can be created to evaluate barrier function
- Fibrous membranes are permeable to molecules larger than 600 kDa
- Hanging cell culture inserts allow easy usage

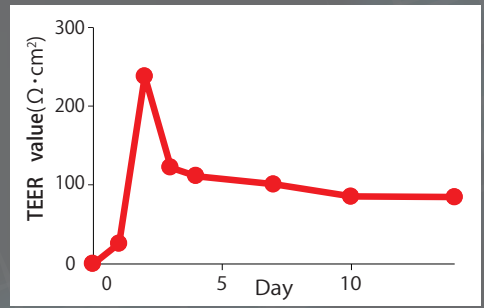
## Evaluation of barrier functions using epithelial cells



Result of immunostaining  
(Red: ZO-1, Blue: nucleus)



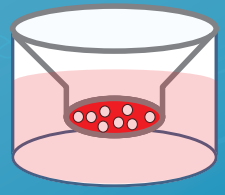
TEER assay



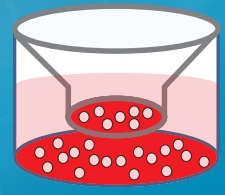
TEER assay result

In epithelial cells, tight junctions restrict ionic flow across luminal and basal compartments, resulting in trans-epithelial electroresistance (TEER: Trans-Epithelial Electrical Resistance). Canine renal tubular epithelial cells (MDCK cells) cultured on membranes for 14 days, formed tight junctions, as shown with increased electrical resistance measured in TEER assays. (in-house data)

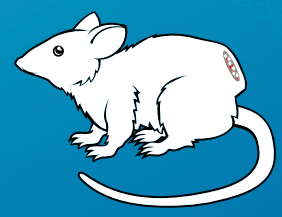
### Culture on membrane



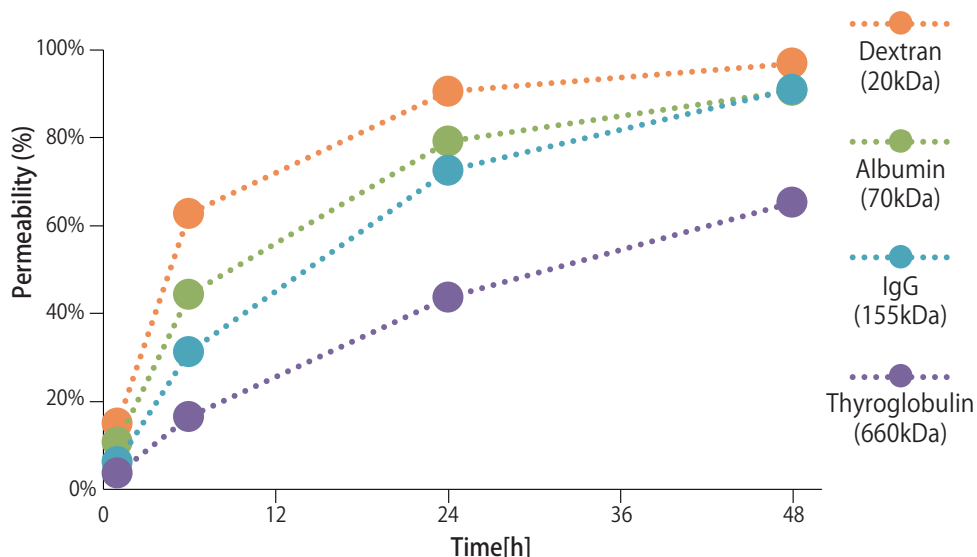
### Co-culture



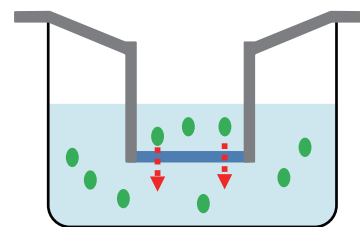
### Cell sheet transplantation



## Atelocollagen membranes are permeable to macromolecules



### Schematic diagram of permeability evaluation



After adding the evaluation molecule solution onto the membrane, the molecules that migrated under the membrane were quantified.

As a result, the membrane was also permeable to proteins larger than 600 kDa (in-house data).

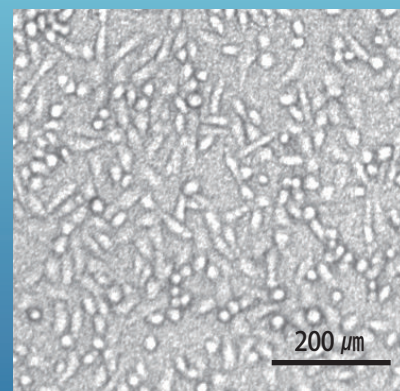
## Cell culture inserts for easy usage



Easy medium exchange without removing inserts. Inserts are designed with 2 pipette-accessible openings.



Also suitable for sectioning and transplantation! Membranes can be excised from frames and easily manipulated with tweezers.



Excellent cell adhesion! Membranes are made of Atelocollagen. (Phase-contrast micrograph, in-house data)

Description	Cat. No.	Item Size	Membrane size	Quantity	Storage
FibColl® Atelocollagen Inserts 24	KOU-FAI-24	φ 19 mm x16mm	φ 6.4 mm x 35 μm	24 pcs/bag	room temperature

For research use only. Application to the human body is strictly prohibited.

Do not use them for any purpose other than research.

Atelocell® and Fibcoll® is a registered trademark of KOKEN Co., Ltd..



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