KOKEN

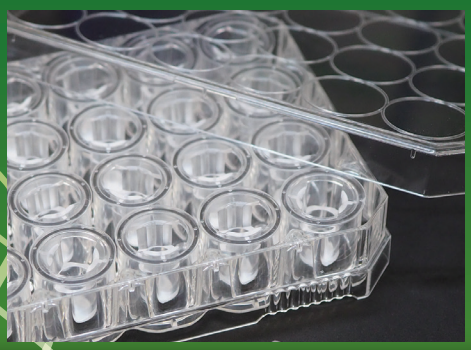
COSMO BIO USA.

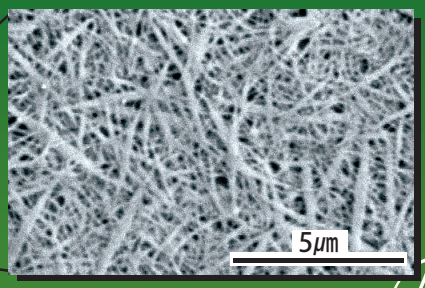
July,2023 New release!

Scaffolds for 3D culture / co-culture AteloCell®

FibColl®

Highly permeable Atelocollagen Inserts for 24 well plates

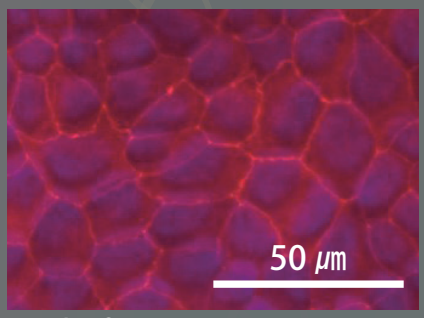




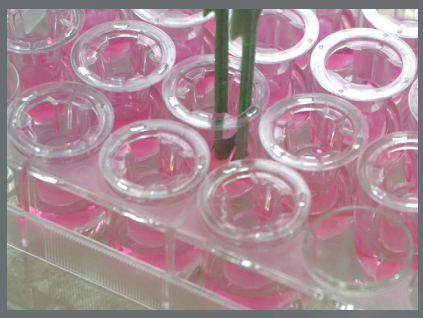
Features

- Create models to evaluate barrier function
- Fibrous membranes are permeable to molecules larger than 600 kDa
- Hunging-type inserts for ease of use

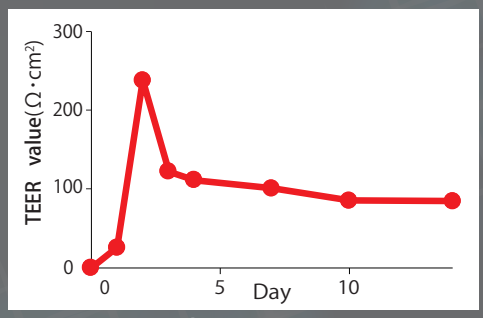
For evaluating barrier function using epithelial cells!



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



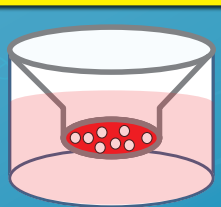
TEER assay



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 reflected in increased electrical resistance measured in TEER assays. (in-house data)

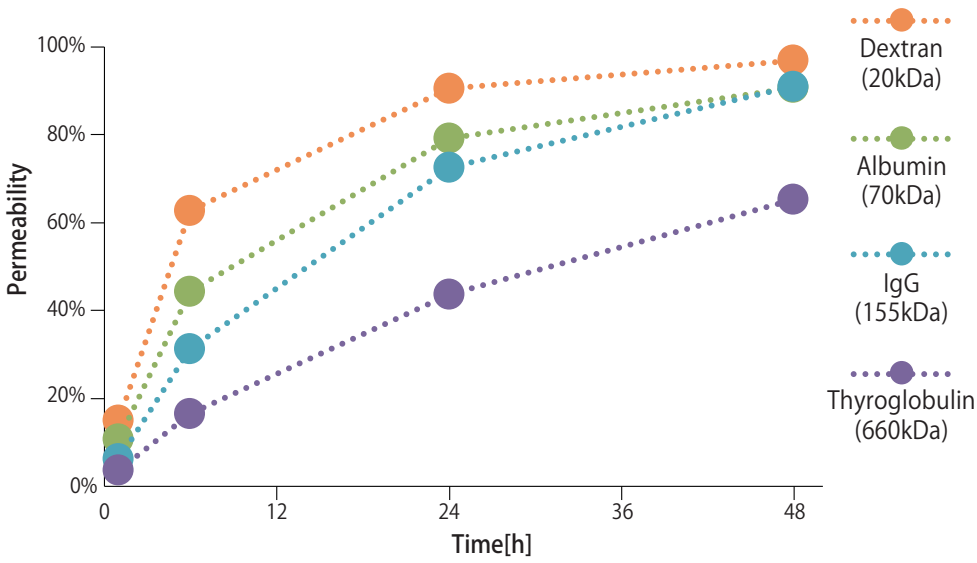
Culture on membrane



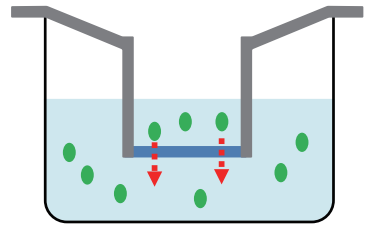
Co-culture

Cell sheet transplantation

Atelocollagen membrane are permeable to macromolecules

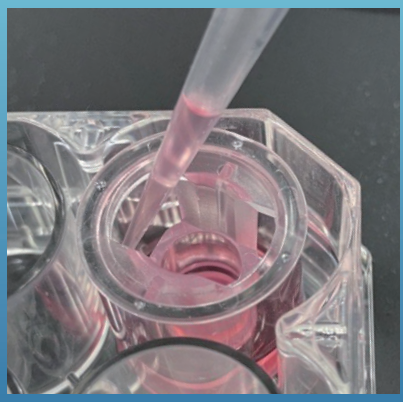


Schematic diagram of permeability evaluation



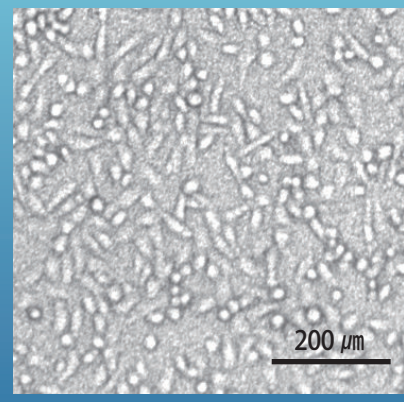
After adding the evaluation molecule solution onto the membrane, the molecules that migrated under the membrane were quantified.
As a result, it was confirmed that proteins larger than 600 kDa also permeate this membrane.(in-house data)

Cell culture inserts for ease of use



Easy medium exchange without insert removal!
Inserts designed with 2 pipette-accseible opeings.

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	ϕ19 mm x16mm	ϕ6.4 mm x 35 μm	25 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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