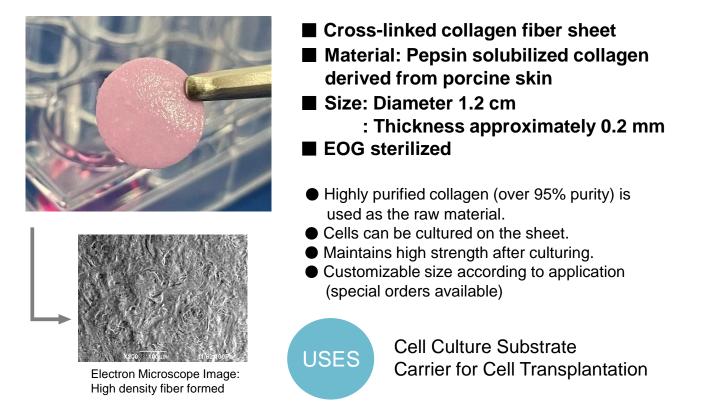


# **Cross-linked Collagen Sheet**

Developed a highly compressed sheet that maintains a fibrous structure equivalent to collagen in vivo!



#### Animal Testing (Implantation test for rat subcutaneous tissue)



In the early stages of implantation, fibrosis and infiltration of inflammatory cells are observed in the surrounding tissues, and phagocytosis progresses.

In some cases, the material completely disappears in approximately 8 to 12 weeks in faster individuals.

Product Code	Product name	1set
892 203	Cross-linked Collagen Sheet, Porcine skin, Pepsin soluble, $\phi$ 12 × 0.2 mm	6 sheets

Manufactured by

### (ippi) Nippi, Incorporated

Agency:

1-1-1 Senjumidori-cho, Adachi-ku, Tokyo 120-8601, JAPAN PHONE : +81-3-3888-5184 FACSIMILE : +81-3-3888-5136 E-mail : protein-info@nippi-inc.co.jp



# **Cross-linked Collagen Sheet**

## Culture example

·Vascular endothelial cells

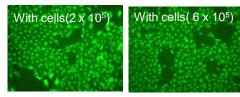
Endothelial cells, which line the interior of blood vessels, are cultured on a collagen sheet.

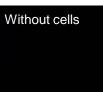
Fibroblasts, which produce collagen in

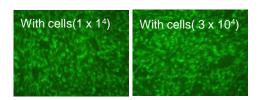
sheet.

Dermal fibroblasts

At week 2 of culture (a photo showing cells fluorescing green).







the dermis, are cultured on a collagen

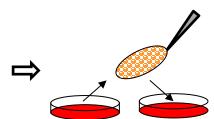
- ▶ The following cells have been confirmed to adhere and proliferate.
  - Human Umbilical Vein Endothelial Cells (HUVEC)
  - Normal Human Dermal Fibroblasts (NHDF)
  - Human Alveolar Basal Epithelial Adenocarcinoma Cells (A549)
  - Human Breast Cancer Cells (MCF-7)

#### Examples of collagen sheet usage









From the following day onward,

and perform a medium change.

transfer the cells to a new well with

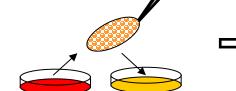
fresh medium using sterile tweezers,

Cell staining image

after 2 weeks of culture (NHDF)

Place the sheet into a 24-well plate, add 100  $\mu$ L of medium, and wet the sheet.

Slowly add the medium containing suspended cells.



Containing cell staining dye

incubator.

Place it in the



Observe under a fluorescence microscope

Agency:

Precautions for use: Due to its low light transmission, observation of cells requires fluorescence staining.

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