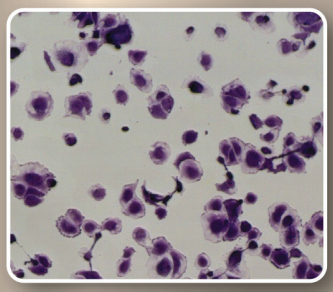
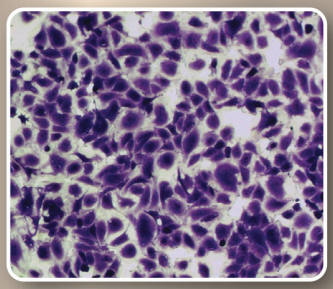
Collagen Type IV

Human, Purified, Lyophilized

Bioassay Results Using
Human Umbilical Vein Endothelial Cells
HUVEC (10X)



[Without Type IV Collagen]



[With Type IV Collagen]

Type IV, Collagen, Human

Highly purified

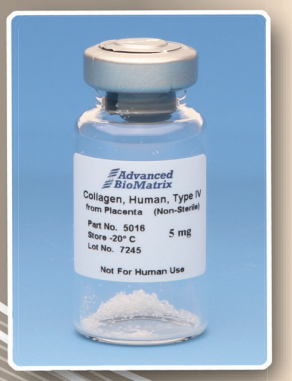
Extensive characterization

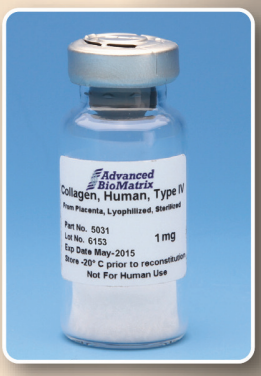
Adhesion to most surfaces

Improved cell attachment of many cell types

Lyophilized for extended shelf life

Cell culture tested





Advanced BioMatrix

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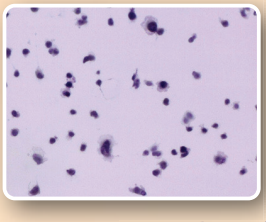
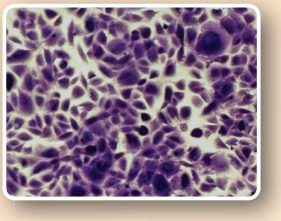
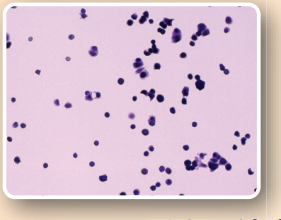
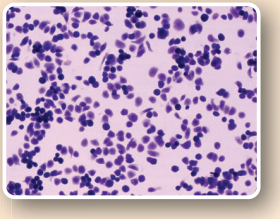
www. AdvancedBioMatrix.com • *Support@AdvancedBioMatrix.com*

Collagen, Type IV, Human

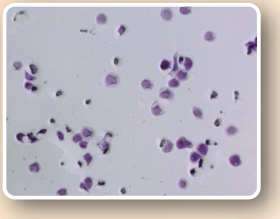
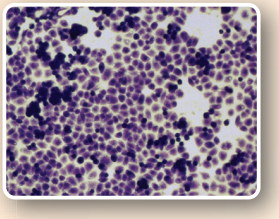
Without Type IV Collagen	With Type IV Collagen

Human Dermal Fibroblasts (10X)

MDCK Epithelial Cells (10X)

Vero Epithelial Cells (10X)

REPORTED APPLICATIONS

Customers and Publications have reported successful cell attachment outcomes using Type IV, Collagen

- K1735 M4 Murine melanoma cells
- HT-1080 Human fibrosarcoma cells
- A431 Human epidermoid
- HBL-100 Human mammary epithelial cells
- SCL-I & II Human skin carcinoma cells
- Sao-2 Human osteosarcoma cells
- RUGL 1 Rat glioblastoma cells
- RN22 Rat schwannoma cells
- A2058 Human melanoma cells
- MG-63 Human osteosarcoma cells
- Primary mouse myoblasts
- Rabbit corneal epithelial cells
- Human dermal fibroblasts
- Human umbilical vein endothelial cells

Type IV Collagen is the primary collagen found in the extracellular basement membranes separating a variety of epithelial and endothelial cells. It is a major component of the dermal-epidermal junction where it is mostly found in the lamina densa. It is a heterotrimeric molecule containing two α1-like and one α 2-like chains.

This Type IV Collagen is isolated from human placenta and is purified using a multi-step process. The product are supplied in a 5 mg sterile lyophilized powder and a non-sterile powder each containing 5 mg of Type IV collagen per vial. A Certificate of Analysis is available with the purchase of each product.

Type IV Collagen is typically used as a thin coating on tissue culture surfaces. Specific instructions are found in the Directions for Use. This product is generally used in vitro as a substrate scaffold to enhance cell attachment, adherence and proliferation. Type IV collagen may be used to culture epithelial, endothelial, muscle, nerve and many other cell types. Additionally, this product is suitable for use as a substrate for collagenase assays and positive controls.

CHARACTERISTICS

Parameter, Testing, and Method	Human Collagen, Type IV Catalog Number 5022	Human Collagen, Type IV Catalog Number 5016
Form	Lyophilized Powder	Powder
Package Size	5 mg	5 mg
Sterilization	Irradiation	Not Sterile
Storage Temperature	-20 °C prior to reconstitution 2 to 10 °C after reconstitution	-20 °C prior to reconstitution 2 to 10 °C after reconstitution
Shelf Life after Reconstitution	3 months	3 months
Polyacrylamide Gel Electrophoresis (SDS-PAGE)	Characteristic	Characteristic
Endotoxin (LAL)	≤ 1.0 EU/mL	≤ 1.0 EU/mL
Adventitious Agents	The human source material has been tested and found negative for hepatitis B virus, hepatitis C virus, and for human immunodeficiency virus-1 and -2 (HIV-1 and -HIV-2)	The human source material has been tested and found negative for hepatitis B virus, hepatitis C virus, and for human immunodeficiency virus-1 and -2 (HIV-1 and -HIV-2)
Source	Human Placenta	Human Placenta

ORDERING INFORMATION

Collagen, Type IV, Human, Lyophilized, Sterilized	Package Size: 5 mg	Catalog No. 5022
Collagen, Type IV, Human, Powder, Non-sterilized	Package Size: 5 mg	Catalog No. 5016

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