



High-Quality Collagen Solutions

Solution type

High-Quality Collagen excellent for all types of research including cell biology, biochemistry, biophysics, tissue engineering, etc.

0.45 μ m filtered



Acid Soluble Collagen

- Strong gel strength
- Suitable for 3D-cell culture
- Superior fibril formation with remaining telopeptides and crosslinks.

Pepsin Solubilized Collagen

- Both N- & C-telopeptides are removed
- Suitable for coating culture vessels

Type I Collagen

- Most abundant collagen in vertebrates
- Major component in collagen fibrils
- More than 95% pure

Type III Collagen

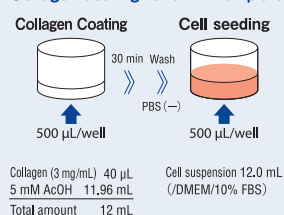
- Abundant in skin tissues
- Rich in juvenile tissues and is important in wound healing
- Non-collagenous domains are removed by pepsin treatment
- P#892 107&108 contain about 20% of type I collagen

Type V Collagen

- Fibrillar collagen
- Rich in the cornea
- Relatively rich near the basement membrane
- Abundant in fine collagen fibrils
- Non-collagenous domains are removed by pepsin treatment

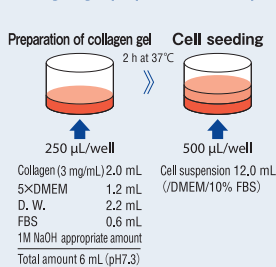
Usage Examples

Collagen coating for a 24 well plate



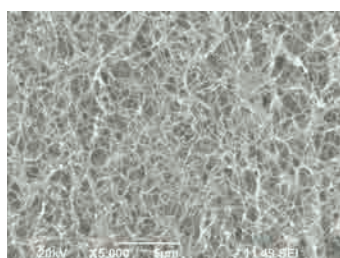
Pre-chill each solution

Collagen gel prep for a 24 well plate



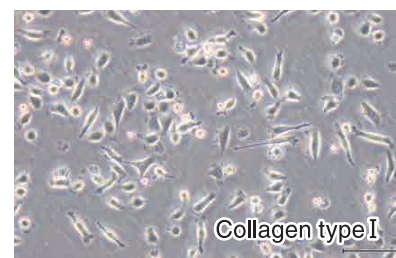
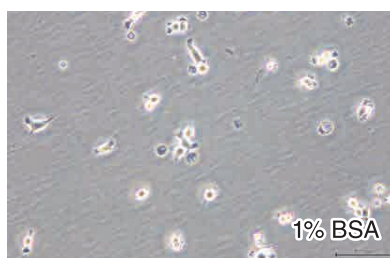
Pre-chill each solution

Reconstituted fibrils



Type I collagen fibrils reconstituted at 37°C under physiological conditions. SEM image (5000 \times)

Excellent cell adhesive property



Adhesion of human keratinocyte cell line FEPE1L-8 at 1 day



Collagen for research reagents

Powder type

Features of Collagen Powder

- Easy to adjust the concentration
- Able to use various solvents
- Native triple helical structure retained

How to dissolve

- Dissolve in an acidic solution, such as 5 mM acetic acid or 1 mM hydrochloric acid.
- To increase the concentration of collagen, first dissolve in water, and then add the required amount of acid solution.
- When the concentration exceeds 5 mg/mL, handling becomes difficult due to the high viscosity.
- Can be dissolved up to a concentration of 10 mg/mL

Applications

- 2D and 3D cell culture substrates
- Bio-ink
- Production of collagen moldings
- R&D for drug delivery system (DDS)



Product code		Product name	Capacity	Price (JPY)
Solution type				
892 101	ASC-1-100-20	Type I collagen, Bovine skin, Acid soluble, 3mg/mL	20mL	¥14,000
892 102	ASC-1-100-100		100mL	¥48,000
892 103	PSC-1-100-20	Type I collagen, Bovine skin, Pepsin-solubilized, 3mg/mL	20mL	¥9,500
892 104	PSC-1-100-100		100mL	¥32,000
892 107	PSC-3-100-05	Type III collagen, Bovine skin, Pepsin-solubilized, 3mg/mL	5mL	¥15,000
892 108	PSC-3-100-20		20mL	¥42,000
892 151	PSC-5-105-01	Type V collagen, Bovine cornea, Pepsin-solubilized, 3mg/mL	1mL	¥18,000
892 111	PSC-1-200-20	Type I collagen, Porcine skin, Pepsin-solubilized, 3mg/mL	20mL	¥10,800
892 112	PSC-1-200-100		100mL	¥36,000
Powder type				
892 140	ASC-1-100-100PW	Type I collagen, Bovine skin, Acid soluble	100mg	¥16,800
892 141	ASC-1-100-500PW		500mg	¥67,000
892 142	PSC-1-100-100PW	Type I collagen, Bovine skin, Pepsin-solubilized	100mg	¥12,900
892 143	PSC-1-100-500PW		500mg	¥51,600
892 144	PSC-1-200-100PW	Type I collagen, Porcine skin, Pepsin-solubilized	100mg	¥11,600
892 145	PSC-1-200-500PW		500mg	¥46,500

Manufactured by

nippi Nippi, Incorporated Biological and Chemical Division

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

Agency: