

Rat Tail Type-I Collagen Solution
Order Information

Product Name:	Rat Tail Type I Collagen Solution
Catalogue Number:	cAP-06
Concentration:	~3.0mg/ml Collagen in 0.2M Acetic Acid
Size:	100mg
Storage:	2-8°C

Product Description:

Collagen is a fibrous protein found in the extracellular matrix and connective tissue. Type I collagen is the most common form of collagen prevalent in bones, tendons and skin. It consists of three intertwined coiled subunits: two $\alpha 1$ (I) chains and one $\alpha 2$ (I) chain. Each chain contains precisely 1050 amino acids wound tightly around one another in a characteristic right-handed triple helix. The triple-helical structure of collagen arises from its unusual abundance of three amino acids: glycine, proline, and hydroxyproline. These amino acids in collagen appear in a characteristic repeating motif Gly-X-Y, where X is usually proline and Y is usually hydroxyproline.

Product Specifications:

Source:	Rat tail tendons
Buffer:	0.20 M Acetic Acid
Celsius Shelf life:	12 months Storage: 2-8°C
Purity:	> 95% SDS PAGE
Concentration:	3 mg/ml (Sircol Assay)
Product pH:	~3.0
Product Conductivity:	0.8 ms/cm

Sterility Testing: This product has been tested for 14 days after incubation in a 37°C incubator. It is free of bacterial and fungal contamination. Product has shown to be negative with respect to mycoplasma contamination by Real-Time PCR.

Shelf Life: 12-months at 4 °C

Applications: Culture wares surface coating with collagen solution:

- 1) Add recommended volume of collagen solution directly to dishes, plates, or inserts.
- 2) Incubate at room temperature in a biological safety cabinet for 1 hour.
- 3) Carefully aspirate remaining solution.
- 4) Rinse the culture wares with PBS to remove acid.

Plates may be used immediately or air-dried first and then stored at 4-8°C for up to one week.

	Culture wares	Area (cm ²)	Collagen Vol (ml)	Wash Vol (ml)
96 well	0.143	0.025	0.05	
24 well	0.33	0.05	0.1	
12 well	1.12	0.25	0.4	
6 well	4.67	0.6	1	

Related Products

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
HBSS w/o Ca ²⁺ , Mg ²⁺	cAP-11	100ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie
Bovine Type I Collagen Solution	cAP-17	100mg	Angio-Proteomie

THESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.