

# Rat Tail Collagen Type I Solution

## Rat Tail Collagen Type I Solution isolated from Fibers

### 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 Specification:

Source:	Rat Tail Collagen (Type I) Solution (from fibers only)
Buffer:	0.20 M Acetic Acid
Shelf Life:	12 months
Storage:	2-4°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.

### Product Information

Catalogue number:	PB-LU-000-0003-100-f
Product:	Rat Tail Collagen Type I Solution isolated from Fibers only
Concentration:	3.0 mg/ml Collagen in 0.2 M Acetic Acid
Size:	100 mg

**How to use:**

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.
5. 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 <sup>2</sup> )	Collagen Vol (ml)	Wash Vol (ml)
96 well	0.143	0.025	0.05
24 well	0.3	0.05	0.1
12 well	1.12	0.25	0.4
6 well	4.67	0.6	1
75 mm insert	44	5	8

Orders can be placed at [sales@pelobiotech.com](mailto:sales@pelobiotech.com) or FAX + 49 (0)89 517 286 59 88