

# Bovine Skin Collagen Type I Solution

## Bovine Skin Collagen Type I Solution

### Product Description:

Collagen is a fibrous protein found in the extracellular matrix and connective tissue. Type I collagen is the most abundant collagen type prevalent in bones, tendons, ligaments and skin. It consists of three intertwined coiled subunits: two alpha 1 (I) chains and one alpha2 (I) chain. Each chain contains around 1000 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. Collagen type I is most widely used for cell attachment as it has integrin binding sites and promotes cell adhesion, spreading and proliferation.

### Product Specification:

Source:	Bovine Skin Collagen (Type I) Solution
Buffer:	0.02 N HCl
Shelf Life:	24 months at -20°C
Storage:	-20°C for longterm storage and at 2-8°C for upto 6 month
Purity:	> 95% SDS PAGE
Concentration:	3 mg/ml(- steril solution of 100 ml (0,02 N HCl
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-000-0006-100
Product:	Bovine Skin Collagen Type I Solution
Concentration:	3.0 mg/ml Collagen in 0.02 N HCl
Size:	100 ml sterile solution

**How to use:**

Applications: Culture wares surface coating with collagen solution:

1. Thaw the frozen collagen solution overnight in a 2-8°C refrigerator.
2. Add recommended volume of collagen solution directly to dishes, plates, or inserts.
3. Incubate at 37°C in an incubator for at least 12 hours (overnight).
4. Carefully aspirate remaining solution.
5. Rinse the culture wares with PBS (2 x) to remove acid.
6. Plates can be used immediately.

Culture Wares	Area (cm <sup>2</sup> )	Collagen Vol (ml)	Wash Vol (ml)
T25 flask	25,0	2,0	4,0
T75 flask	75,0	4,0	8,0
6 well plate	4,67	1,0	2,0

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