

NEUROMICS



Type I Bovine Collagen

Catalog #: TBC320

Product Source: Type 1 Collagen derived from bovine achilles tendon.

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: Bovine achilles tendon	Buffer: 0.2M Acetic Acid	Celsius Shelf life: 12 months
Storage: 2-8 ° C	Purity: > 95% SDS PAGE	Concentration: 3 mg/ml
Product pH: 3.0	Gel formation: >15 minutes	

Sterility Testing: This product has been tested after 14 days 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.

Recommended Coating and Washing Volumes: Add sufficient collagen solution to coat dishes, plates, or inserts. 1-2 ml of solution is sufficient to cover a 35 mm dish. Incubate at room temperature in a biological safety cabinet partially covered for one hour. Carefully aspirate remaining solution. Rinse with proper volume of serum-free media to remove acid. Plates may be used immediately or air dried.

Wells	Area (cm ²)	Coating Volume (ml)	Wash volume (ml)
96	0.143	0.025	0.05
24	0.33	0.05	0.1
12	1.12	0.25	0.4
6	4.67	0.6	1
75 mm insert	44	5	8

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Cell Attachment Assays: cells were seeded and incubated at 37°C onto surfaces using DMEM media.

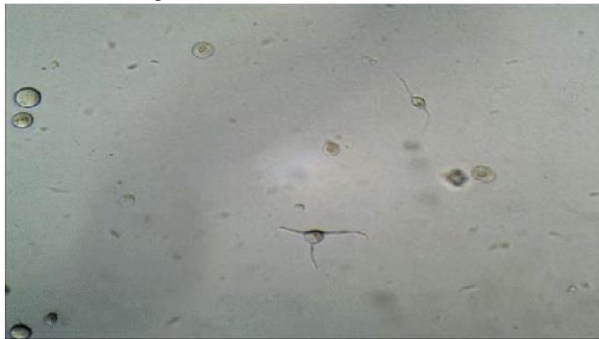
LnCAP cell negative control surface



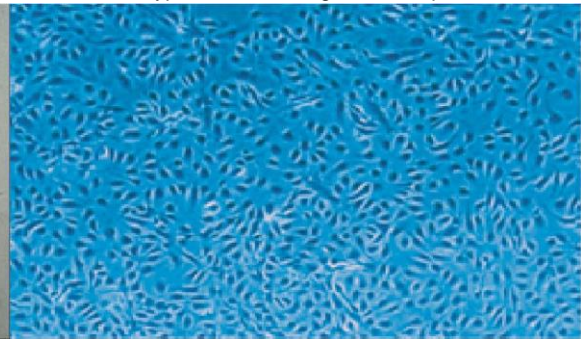
LnCAP cell / Type I bovine collagen coated surface



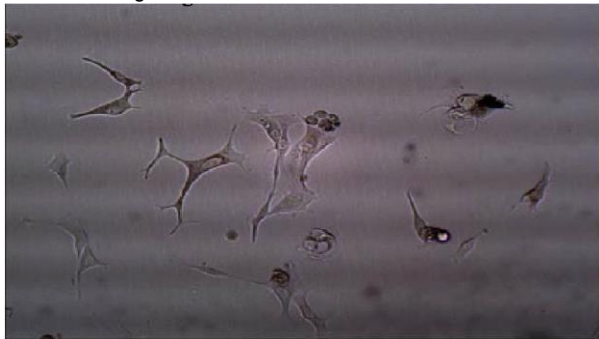
HUVEC cell negative control surface



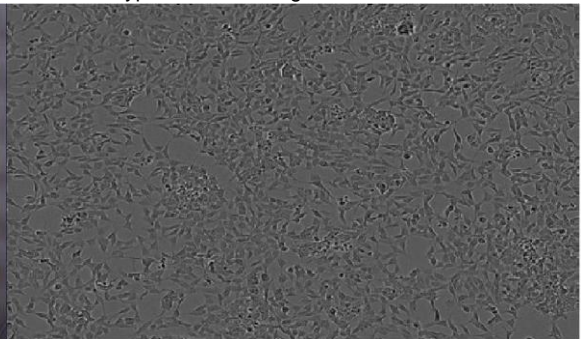
HUVEC cell / Type I bovine collagen coated plate



IMR-32 cell negative control surfaces



IMR-32 cell/ Type I bovine collagen coated surface



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