FT-FX720A



Rat Collagen I (Rat tail tendons)

Product Description

Name :	Type-I Rat Tail Collagen		
Catalog Number :	UPFX720A, 20 ml	UPFX720A, 100 ml	
Buffer :	0,2M Acetic Acid		
Concentration :	3 mg/ml Sircol Assay		
Purity :	>95% SDS PAGE		
Product pH:	3.0		
Product Conductivity :	0.8 ms/cm		
Shelf life :	12 months		

Storage: +4°C

Introduction

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 α 1 (I) chains and one α 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.

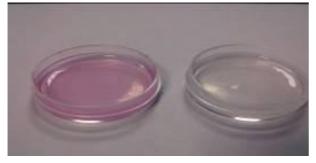
Quality Assurance

This product is prepared from rat tail tendons. It is stored in aqueous 0.2M acetic acid with a protein concentration of ~ 3 mg/ml. Protein concentration was estimated by SircolTM collagen assay kit.

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.

Gel formation

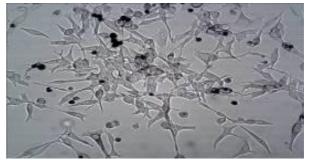
Collagen form a very firm gel At neutral pH with a 1 hour 37 ° C incubation time



Cell Attachment Assays

P.1

LNCaP prostate carcinoma cells show strong attachment to collagen



FT-FX720A



Directions for use

Handling and Storage

Collagen storage condition: is 2 to 8 degrees Celsius. The product should never be frozen. Collagen type I is 95% in purity, other non-collagen proteins below 0.5%. Type I, Rat Tail Collagen.

Gel formation

This procedure should be performed under a Laminar Flow Hood.

- Removed desired amount of collagen from the bottle, place it into a sterile beaker.
- Place a magnetic stir bar in the beaker.
- Begin mixing very slowly in order to ovoid air bubbles in your gel.
- Monitor the pH
- Slowly add NaOH buffer solution into the beaker, until the collagen solution reaches a pH of 6.7
- Add your cell culture media into the beaker
- After adding your media monitor the pH and allow it to stabilize at 7.3
- When the collagen solution reaches a pH 7.3, pour it into your wanted vessel, place it in a 37 ° C incubator for 1 hour to help promote gel formation.

Collagen Coating

- Add sufficient collagen solution to coat dishes, plates, or inserts. 1-2 ml of solution is sufficient to cover a 35mm 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 stored unused plates at 2-8 ° C for up to one week under sterile conditions.

Well	Area (cm2)	Coating Volume (ml)	Wash volume (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
75 mm insert	44	5	8

Related / associated products and documents

- Accutase, cell detachment solution, <u>UPN68081</u>
- Human Mesenchymal Stem Cell (hMSC), EV9230

• Accumax, <u>UPN68091</u>

Ordering information

Catalog size quantities and prices may be found at <u>http://www.interchim.com</u>. Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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Contact your local distribut	or Uptima,	powered by	
uptima@interchim.com	🕈 interchim	213 Avenue J.F. Kennedy - BP 1140 03103 Montluçon Cedex - France Tél. 04 70 03 88 55 - Fax 04 70 03 82 60	P.2