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Datasheet for 001-G70-MF1

Ultrapure Collagen I for tissue engineering - Bovine Placenta

Overview

Description:	Ultrapure Collagen I for tissue engineering - Bovine Placenta - 001-G70-MF1
Item No.:	001-G70-MF1
Size:	10 mL
Applications:	Cellular Assay
Origin:	Bovine

Product Details

Background:	Bovine Collagen Type I is one of a family of proteins found particularly in the flesh and connective tissues of mammals (approximately one-third of the body's total protein). Over two dozen types of collagen have been described; Type I is the most abundant form in the body. Collagen Type I is found in scar tissue, tendons, the skin, arterial walls, the corneas, muscles, cartilage, and in the organic parts of bones and teeth. Bovine Collagen Type I is ideal for investigators involved in extracellular matrix proteins and osteoporosis.
Synonyms:	Type I collagen, collagen 1, bovine collagen, Alpha 1 type I collagen, Alpha 2 type I collagen, COL1A1, COL1A2, Collagen alpha-1(I) chain, Collagen alpha-2 (I) chain, 2D cell culture, 3D cell culture
Species of Origin:	Bovine

Target Details

Gene Name:	COL1A1
Purity/Specificity:	Ultrapure Bovine Collagen Type I Solution is purified from bovine placenta and shown to be greater than 99% pure by gel electrophoresis and immunoassays.
Relevant Links:	• Collagen_Top_Culture-Protocol

Application Details

Suggested Applications:	Cellular Assay (Based on references)

Application Note:	Ultrapure Bovine Collagen Type I solution has been tested in cell culture and can be utilized to mimic in vivo environment for 2D and 3D cell culture, tissue engineering research, and biochemistry.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

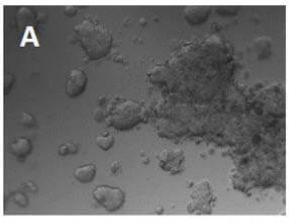
Formulation

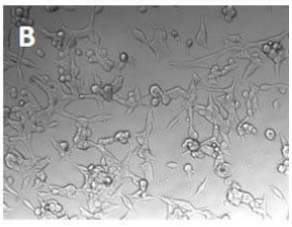
Physical State:	Liquid (sterile filtered)
Concentration:	2.0mg/mL by dry weight
Buffer:	0.013M HCl
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Keep under sterile conditions.
Expiration:	Expiration date is six (6) months from date of receipt.

Images





Viable cell growth
Ultrapure Collagen Type I from Bovine Placenta for tissue engineering. LNCaP cells grown under cell specific optimal conditions for 48hs using 001-G70-MF1 as top culture media (A) or no addition of collagen (B).

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