

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)
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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

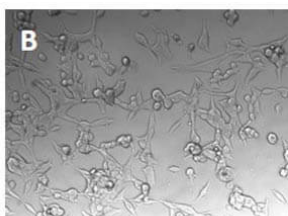
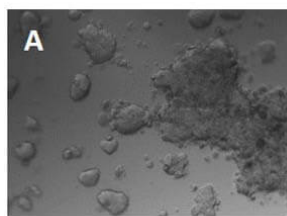
Shipping & Handling

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).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.