

Nutragen[®] Collagen

Catalog Number: 5010-D

OVERVIEW

Nutragen[®] collagen is approximately 6 mg/mL, pH 2, available in 50 mL volumes, and produced by aseptic processing. Nutragen is about 97% Type I collagen with the remainder being comprised of Type III collagen. Nutragen contains a high monomer content as judged by gel permeation chromatography.

STORAGE

Nutragen: The product ships on frozen gel packs with storage at 2–10°C recommended. Do not freeze. The expiration date is printed on the product label and certificate of analysis for each specific lot. The expiration date is applicable when product is handled and stored as directed.

CHARACTERIZATION

Purity: Nutragen is ultrapure collagen ($\geq 99.9\%$ SDS-PAGE, $\sim 97\%$ Type I with remainder Type III collagen). SDS-PAGE shows the typical α , β and γ banding pattern. Gradual breakdown may occur over long periods of time thus creating atypical banding patterns.

Concentration: The concentration of Nutragen collagen is approximately 6.0 mg/mL. The actual concentration is printed on the product label and certificate of analysis for each specific lot.

pH: Supplied in 0.01M HCl (pH ~ 2.0).

Endotoxin: ≤ 0.5 EU/mL (LAL assay).

INSTRUCTIONS FOR USE

1. Slowly add 1 part of chilled 10X PBS or 10X culture media to 8 parts of chilled collagen solution with gentle swirling.
2. Adjust pH of mixture to 7.2–7.6 using sterile 0.1 M NaOH. Monitor pH adjustment carefully (pH meter, phenol red, or pH paper).
3. Adjust final volume to a total of 10 parts with sterile water.
4. To prevent gelation, maintain temperature of mixture at 2–10°C.
5. To form gel, warm to 37°C. Allow approximately 90 to 120 minutes for gel formation.

PRECAUTIONS

This product is for R&D use only and is not intended for human or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

MANUFACTURER INFORMATION

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PRODUCT WARRANTY

BioTime, Inc. and/or its subsidiaries warrants its products as set forth in the General Terms and Conditions of Sale found on ESI BIO's website at www.esibio.com/termsandconditions.

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