

TYPE II PORCINE COLLAGEN SOLUTION

10 MG, 3 MG/ML
Catalog Number 5465

Product Description

Porcine Collagen Type II 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 II is found predominantly in hyaline cartilage (50% of the protein in hyaline is collagen type II) and is also found in the vitreous humor of the eye.

The product is supplied as a sterile solution at approximately 10 mg per vial at approximately 3.0 mg/mL in 20 mM acetic acid. A certificate of analysis is available with the purchase of each product. Type II collagen is provided in user-friendly packaging for use and storage. Type II collagen may be used to culture a variety of cell types.

Characterization

Identity/Purity: The identity and purity of Type II Porcine Collagen is qualitatively evaluated using electrophoresis (SDS-PAGE) which shows the typical banding pattern for Type II collagen.

Storage: This product is stored at 2 to 10°C and is shipped on frozen gel packs.

Stability: The product shelf life is 18 months when stored at 2 to 10°C.

pH: Supplied in 20 mM acetic acid (pH ~3.7).

Concentration: This product contains approximately 10 mg of porcine Type II collagen at an approximate concentration of 3.0 mg/ml. The actual concentration is printed on the product label and certificate of analysis for each specific lot.

Sterility: No growth

Purity: >90% by SDS PAGE electrophoresis

Precautions and Disclaimer

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.

Preparation Procedure

Coating Procedure

Note: use these recommendations as guidelines to determine the optimal coating conditions for your culture system.

1. Remove required quantity of Type II collagen from the bottle and dispense into a dilution vessel.
2. Dilute the product with a 20 mM acetic acid solution to desired concentration.
3. Swirl contents gently until thoroughly mixed.
4. Add approximate amount of diluted Type II Collagen to the culture surface ensuring the entire surface is coated.
5. Incubate at room temperature, covered for 1-2 hours.
6. After incubation, aspirate any excess remaining material.
7. Rinse coated surface carefully with a sterile medium or balanced salt solution. Avoid scratching surfaces.
8. Aspirate remaining material from coated surface.
9. Coated culture vessels are now ready to use. The coated culture vessels may be stored at 2 to 10°C.