

TYPE V COLLAGEN, BOVINE, SOLUTION
0.5 MG, ~ 0.2 MG/ML, STERILIZE FILTERED
Catalog Number 5168

Product Description

Type V Collagen provides structure and strength to connective tissue, is found many places in the body, especially skin, lung, intestinal walls and the walls of blood vessels. Collagen V is isolated from placenta and is purified using a multi-step process with the final purity of >95%. Type V collagen forms a triple helix composed of a $\alpha 1(V)2 \alpha 2(V)$.

The product is supplied as a sterile solution at approximately 0.5 mg per vial at approximately 0.15 to 0.30 mg/ml in 100 mM acetic acid. A certificate of Analysis is available with the purchase of each product. Type V collagen is provided in user-friendly packaging for use and storage. attachment, adherence and proliferation. Type V collagen may be used to culture a variety of cell types.

Characterization

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

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

Stability: The product shelf life is 24 months when stored at 2 to 10°C.

pH: Supplied in 100 mM acetic acid (pH ~3.0).

Concentration: This product contains approximately 0.5 mg of bovine Type V collagen at an approximately concentration of 0.15 to 0.30 mg/ml. The actual concentration is printed on the product label and certificate of analysis for each specific lot.

Sterility: No growth

Endotoxin: ≤ 5.0 EU/ml

Purity: >95% 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 V collagen from the bottle and dispense into a dilution vessel.
2. Dilute the product with a 100 mM acetic acid solution to desired concentration.
3. Swirl contents gently until thoroughly mixed.
4. Add approximate amount of diluted Type V 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.