Native Human Collagen Type III

Cat. No. Collagen Type III-06H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Collagen Type III is isolated from human placenta. Gelation Time: <60 mins Fibril Formation: >0.35 abs. units pH: approx 2 Telo vs. Atelo: Atelo-collagen
Species	Human
Source	Placenta
Description	Human Collagen Type III is initially produced as procollagen, a protein consisting of three pro-α1(III) chains that form the triple-stranded, rope-like molecule. After being synthesized, the procollagen molecule is modified by the cell.
Endotoxin	≤10.0 EU/mL as measured by kinetic LAL
Purity	>99.9%
Applications	3D Gels, Tissue engineering research, Wound healing constructs, Coatings, Solid free-form fabrications, Electrospinning, in-vitro research, Nerve Repair, Hemostats, Sealants, Coils, Sponges, Spheres/Beads, Ligaments, Strings, Tubes/Cylinders, Films
Usage	Coating Procedure Note: Use these recommendations as guidelines to determine the optimal coating

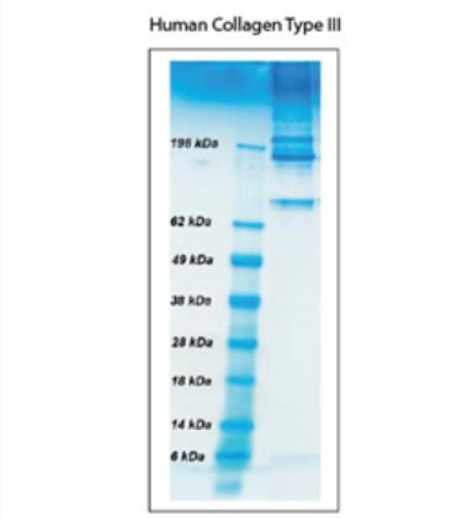
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	conditions for your culture system. 1. Remove required quantity of collagen from the bottle and dispense into a dilution vessel. 2. Dilute Type III collagen solution with a 0.01 M HCl solution water to ~50 to 100 µg/mL (~1:10). 3. Swirl contents gently until material is completely mixed. 4. Add appropriate amount of diluted Type III Collagen to the culture surface ensuring that the entire surface is coated. 5. Incubate at room temperature, covered for 1-2 hours. 6. After incubation, aspirate any remaining material. 7. Rinse coated surfaces carefully with sterile medium or PBS, avoid scratching surfaces. 8. Coated surfaces are ready for use. They may also be stored at 2-10 centigrade damp or air dried if sterility is maintained.
Storage	4 centigrade
Concentration	~ 1 mg/mL

GENE INFORMATION

Official Symbol	Collagen Type III
Synonyms	Collagen Type III

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SDS-PAGE	 Characteristic; approximately 85% Type III and 15% Type I

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