



Data Sheet

Research Use Only

Product Name

OptiCol™ Human Collagen Type III (1 mg/ml)
10 mg

Catalog Number

M20S

Source

Human Placenta

Gelation time

< 60 mins

Purity

> 99.9%

Storage

4°C

Description

OptiCol™ Human Collagen Type III is initially produced as procollagen, a protein consisting of three pro-alpha1(III) chains that form the triple-stranded, rope-like molecule. After being synthesized, the procollagen molecule is modified by the cell.

Concentration

Approximately 1 mg/mL

Fibril Formation assay

> 0.35 Abs. Units

pH (prior to liophilization)

approx 2

SDS Page

Characteristic; Approximately 85% Type III, 15% Type I

Coating Procedure

Note: Use these recommendations as guidelines to determine the optimal coating 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 2-8°C damp or air dried if sterility is maintained.