



Data Sheet

Research Use Only

Product Name

OptiCol™ Human Collagen Type III Non-sterile
(powder) 10 mg

Catalog Number

M21L

Source

Human Placenta

Gelation time

< 90 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. Enzymes modify the amino acids lysine and proline in the protein strands by adding chemical groups that are necessary for the strands to form a stable molecule and then later to crosslink to other molecules outside the cell.

Fibril Formation assay

> 0.5 Abs. Units

pH

approx 2

SDS Page

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

Coating Procedure

1. Reconstitute the 10 mg vial with 10 ml of cold 0.01 N HCl and gentle swirl until completely solubilized.
2. Remove required quantity of OptiCol™ collagen from the bottle and dispense into a dilution vessel.
3. Dilute Type III OptiCol™ collagen with a 0.01 N HCl to desired concentration.
4. Swirl contents gently until material is completely mixed.