



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



# Data Sheet

Research Use Only

## Product Name

OptiCol™ Human Collagen Type I (3 mg/mL)  
60 mg

## Catalog Number

M16S

## Source

Human Neo-Natal Fibroblast Cells

## Gelation time

< 90 mins

## Purity

> 99.9%

## Storage

4°C

## Description

OptiCol™ Human Collagen Type I is isolated from human neo-natal fibroblast cells. These cells are cultured in optimal conditions allowing these cells to naturally and efficiently secrete extracellular matrix which is processed and purified to produce human collagen. Manufactured under stringent quality standards with high lot-to-lot consistency. Made up of 97% Type I human collagen and 3% Type III collagen. Exhibits high monomer content (as measured by gel permeation chromatography).

## SDS PAGE

≥ 85% collagen contained within alpha, beta, and gamma bands, ≤ 15% collagen contained with bands traveling faster than alpha

## Fibril Formation assay

> 0.5 Abs. Units

## pH (prior to lyophilization)

approx 2

## Concentration

2.9-3.2 mg/ml

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## 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 in water to ~50 to 100 µg/ml (~1:30). A 0.01 N HCl solution may also be used.
3. Swirl contents gently until material is completely mixed.
4. Add appropriate amount of diluted collagen material to the culture surface ensuring that the entire surface is coated.
5. Incubate at room temperature or 37°C, 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.

## 3-D Gel Preparation Procedure

1. Slowly add 1 part of chilled 10x PBS or 10x culture media to 8 parts of chilled collagen solution with gentle swirling.
2. Adjust pH of mixture to 7.2–7.6 using sterile 0.1 M NaOH. Monitor pH adjustment carefully (pH meter, phenol red, or pH paper).
3. Adjust final volume to a total of 10 parts with sterile water.
4. To prevent gelation, maintain temperature of mixture at 2–10°C.
5. To form gel, warm to 37°C. Allow approximately 120 minutes for gel formation.