

# Native Human Collagen Type I

**Cat. No.** Collagen Type I-05H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | <p>Human Collagen Type I is isolated from human neo-natal fibroblast cells.</p> <p>Gelation Time: &lt;90 mins</p> <p>Fibril Formation: &gt;0.5 abs. units</p> <p>pH: approx 2</p> <p>Telo vs. Atelo: Atelo-collagen</p>   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Neo-Natal Fibroblast Cells  |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Sterile filtered white lyophilized (freeze-dried) powder  |
| <b>Endotoxin</b>        | ≤1.00 EU/mL as measured by kinetic LAL  |
| <b>Purity</b>           | >99.9%  |
| <b>Applications</b>     | <p>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</p> <p>Note: Lyophilized form is not recommended for formation of a 3D gel</p>               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|  |   |
|--|---|
| <b>Usage</b>   | <b>Coating Procedure</b>  |
|  | 1. Remove required quantity of collagen from the bottle and dispense into a dilution vessel.                              |
|  | 2. Dilute collagen 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 centigrade, 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. |   |

|                |  |
|----------------|--|
| <b>Storage</b> | Lyophilized product is very stable at -20 centigrade (recommended 24 months).<br>Reconstituted material should be stored at 4 centigrade and used within 3 months. |
|----------------|--|

|                       |  |
|-----------------------|--|
| <b>Reconstitution</b> | Dilute in 5 mL 0.01N HCl to yield 3 mg/mL solution |
|-----------------------|--|


## GENE INFORMATION

|                        |                 |
|------------------------|-----------------|
| <b>Official Symbol</b> | Collagen Type I |
|------------------------|-----------------|

|                 |                 |
|-----------------|-----------------|
| <b>Synonyms</b> | Collagen Type I |
|-----------------|-----------------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA