

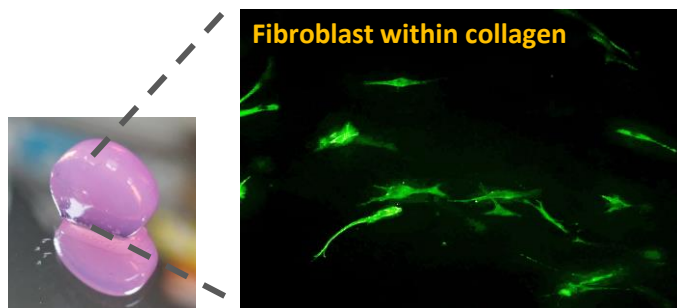
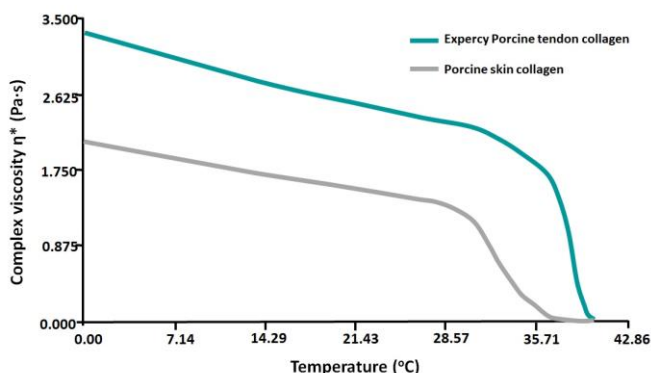


Collagen, as the major extracellular matrix in mammalian tissue has a wide variety of applications in various domains, including tissue/cell culture, tissue engineering, tissue 3D scaffold, medical devices, tissue reconstruction and tissue repair.

### Expercy Medical Ltd. : Your source for advanced collagen Porcine collagen type 1

Expercy Medical offer collagen type I from **porcine tendon** and maintain its triple-helix structure during purification. This results in our product having a more compact structure compared to other collagen sources. Moreover, when compared to collagen from alternative origins, porcine collagen is more closely resembles to human, These distinctive characteristics open up new and exciting possibilities in the field of 3D cell culture.

Furthermore, our collagen is manufactured accordance with ISO10993 standard. These rigorous standards position our product as an optimal choice for both medical applications and scientific research.



High tensile strength and able to form compact gel >35°C

#### Feature

- More human-like collagen source
- Mimicking in vivo-like ECM environment
- High tensile strength with quick polymerization properties
- Various formulation available for wide applications
- Adjustable to neutral pH level

## Specification

|                                 |  |
|---------------------------------|--|
| <b>Endotoxin LAL</b>            | <0.5 EU/ml or <1.0 EU/ml   |
| <b>Purity</b>                   | ≥ 95% Collagen contained with α, β and γ, < 5% Collagen contained within bands traveling faster than α (SDS PAGE electrophoresis, instant blue staining) |
| <b>pH</b>                       | 2.0 – 4.0  |
| <b>Osmolality</b>               | ≤ 35 mOsmo H <sub>2</sub> O/Kg   |
| <b>Sterility (USP modified)</b> | Sterile filtered   |
| <b>Cell Attachment</b>          | Pass   |

## Pioneering Biomaterial Solutions Together

As a biomaterial provider, Expercy familiar and have extensive experience in biomaterial chemistry, characterization, and aseptic processing. Based on our expertise, we also cooperate with our customer to co-develop formulations, components, and finished products.

Application of absorbable biomaterial include, but bit limited to:

- Tissue engineering
- Regenerative medicine
- 3D cell culture
- Wound healing
- Medical device coating



### Why choose Expercy?



Formulated product according to your requirement



In compliance with ISO10993 and works towards GMP principles



State-of-the-art manufacturing facilities comply with ISO 14644-1 clean room standard



ISO Class 5 open RABs system

## Package

### Solution Form – Research grade

| Specification                             | Sterility   | Concentration | Catalog No.  | Package |
|---|-------------|---------------|--------------|---------|
| Purity>95%, pH2-4,<br>Endotoxin <1.0EU/ml | Sterile     | 3mg/ml        | B00-01A-3mgA | 20ml    |
|   |             |               | B00-01A-3mgB | 50ml    |
|   |             |               | B00-01A-3mgC | 100ml   |
|   |             | 5mg/ml        | B00-01A-5mgA | 20ml    |
|   |             |               | B00-01A-5mgB | 50ml    |
|   |             |               | B00-01A-5mgC | 100ml   |
| Purity>95%, pH2-4,<br>Endotoxin <1.0EU/ml | Non-Sterile | 3mg/ml        | B00-01B-3mgA | 20ml    |
|   |             |               | B00-01B-3mgB | 50ml    |
|   |             |               | B00-01B-3mgC | 100ml   |
|   |             | 5mg/ml        | B00-01B-5mgA | 20ml    |
|   |             |               | B00-01B-5mgB | 50ml    |
|   |             |               | B00-01B-5mgC | 100ml   |

### Solution Form – Premium grade

| Specification                              | Sterility   | Concentration | Catalog No.   | Package |
|--|-------------|---------------|---------------|---------|
| Purity>95%, pH2-4,<br>Endotoxin <0.5 EU/ml | Sterile     | 3mg/ml        | B00-01MA-3mgA | 20ml    |
|  |             |               | B00-01MA-3mgB | 50ml    |
|  |             |               | B00-01MA-3mgC | 100ml   |
|  |             | 5mg/ml        | B00-01MA-5mgA | 20ml    |
|  |             |               | B00-01MA-5mgB | 50ml    |
|  |             |               | B00-01MA-5mgC | 100ml   |
| Purity>95%, pH2-4,<br>Endotoxin <0.5 EU/ml | Non-Sterile | 3mg/ml        | B00-01MB-3mgA | 20ml    |
|  |             |               | B00-01MB-3mgB | 50ml    |
|  |             |               | B00-01MB-3mgC | 100ml   |
|  |             | 5mg/ml        | B00-01MB-5mgA | 20ml    |
|  |             |               | B00-01MB-5mgB | 50ml    |
|  |             |               | B00-01MB-5mgC | 100ml   |

### Lyophilized Form – Research grade

| Specification                     | Sterility | Catalog No. | Package |
|-----------------------------------|-----------|-------------|---------|
| Purity>95%, Endotoxin < 1.0 EU/mg | Sterile   | B00-01C-A   | 200mg   |
|                                   |           | B00-01C-B   | 500mg   |
|                                   |           | B00-01C-C   | 1g      |

### Lyophilized Form – Premium grade

| Specification                     | Sterility | Catalog No. | Package |
|-----------------------------------|-----------|-------------|---------|
| Purity>95%, Endotoxin < 0.5 EU/mg | Sterile   | B00-01MC-A  | 200mg   |
|                                   |           | B00-01MC-B  | 500mg   |
|                                   |           | B00-01MC-C  | 1g      |