

## Directions for Use

**RatCol® High Concentration Type I Acid Soluble Rat Tail Collagen** contains 100 mg at a concentration of approximately 10 mg/mL in a 0.02M acetic acid solution (~pH 3). RatCol® collagen is soluble *te*lo-collagen. This collagen product is provided in user-friendly packaging for use and storage. This product is sterile filtered and is supplied as a ready to use solution.

Note: the 10 mg/ml collagen is highly viscous. Ensure thorough mixing for product to polymerize properly.

### Coating Procedure

Note: Employ aseptic practices to maintain the sterility of the product throughout the preparation and handling of the collagen and other solutions.

1. Transfer desired volume of collagen solution from the bottle to a dilution vessel if required. Further dilute to desired concentration using sterile 0.1% acetic acid solution. A typical working concentration may range from 50 to 100 ug/mL. Note: Use these recommendations as guidelines to determine the optimal coating conditions for your culture system.
2. Add appropriate amount of diluted Rat Tail collagen to the culture surface.
3. Incubate at room temperature, covered, for 1-2 hours. Aspirate any remaining material. Alternatively, incubate at room temperature until surface is dry.
4. Rinse coated surfaces carefully with sterile medium or PBS, avoid scratching surfaces.
5. 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

Note: Employ aseptic practices to maintain the sterility of the product throughout the preparation and handling of the collagen and other solutions.

Note: It is recommended that the collagen and other working solutions be chilled and kept on ice during the preparation of the collagen.

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 7.0–7.5 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 90 to 120 minutes for gel formation.



Your Partner for Life Science Products for more than 30 years.

CellSystems GmbH  
Junkersring 5

53844 Troisdorf  
Germany

Telefon +49.2241.25515-0  
Fax +49.2241.25515-30

Mail info@cellsystems.de  
Web www.cellsystems.de