**Product Information**

**Bovine Collagen Solutions**
suitable for biomedical research

Catalog Numbers **804592, 804614, and 804622**

Storage Temperature 2–8 °C

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**CAS RN 9007-34-5**

**Product Description**
These bovine collagen solutions gel at pH 7 and form 3D structures for culturing or coating plastic labware for increased cell adhesion.

**Reagent Required but Not Provided.**
Neutralization buffer (0.2 M sodium phosphate, pH 11) for formation of a three dimensional gel.

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**
Store the collagen products at 2–8 °C.

Store the prepared Neutralization buffer at room temperature. If the buffer is refrigerated, a precipitate may form. If crystals are present, warm the buffer and mix before use.

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**Procedures**

**Three Dimensional Gel**
1. Cool the collagen solution, pH 2, to 2–8 °C.

2. Sterile filter the neutralization buffer (0.2 M sodium phosphate, pH 11) before use.

3. Add 1 part of buffer to 9 parts of collagen solution and mix at 2–8 °C, i.e., 1 ml of neutralization buffer to 9 ml of collagen solution.
   **Note:** Before preparing a large scale buffer/collagen mixture, consider checking the pH on a small scale, i.e., add 0.2 ml of buffer to 1.8 ml of collagen solution. The desired final pH is 7.0–7.6.

4. Load the cold mixture into the plastic ware and then incubate the neutralized collagen at 37 °C for at least 45 minutes.
   **Note:** Do not disturb the gel during the gelation process as this will result in a weaker gel.

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**Thin Coating of 35 mm Dish**
1. Dilute collagen solution to 50–100 µg/ml using 0.01 M HCl solution.

2. Add enough diluted collagen solution to coat dishes with 5–10 µg/cm².
   **Note:** Use one to two milliliters for a 35 mm dish.

3. Incubate at room temperature for one hour.

4. Carefully aspirate remaining solution.

5. Rinse well to remove acid, using PBS or serum free medium.

6. Plates may be used immediately or air dried. They may then be stored at 2–8 °C for up to one week under sterile conditions.

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