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TECHNICAL INFORMATION

Catalog Number: 150026

Collagen type I

CAS # : 9007-34-5

Source: Calf skin

Type I : Type I; Soluble; Lyophilized; Salt-free

Use: Suitable for cell adhesion in tissue culture, as well as gel formation, platelet aggregation, and as a substrate for collagenase.

Preparation: Prepared according to the method of gallop and seifter (1). In the method, fresh calf skin is extracted with 0.5 M NaOAc to remove non-collagen proteins. The soluble collagen is extracted with 0.075 M sodium citrate pH 3.7 and precipitated as fibrils by dialysis against 0.02 M Na₂HPO₄.

Solubility: Soluble in 0.075 M sodium citrate pH 3.7 and in dilute acetic acid.

Typical Assay/Identity Method:

- Gel diffusion in Sepharose 4B indicates Molecular Weight at approximately 1,000,000.
- Precipitates at pH 7.5 with 2.3 M NaCl and at pH 3.5 with 0.8 M NaCl.
- Migrates as characteristic gamma, beta, alpha 1 and alpha 2 bands.

Reference:

- Gallop, P.M. and Seifter, S., *Meth. Enzymol.* **v. 6**, 635 (1936)