



**Bovine Type II Collagen Substrate, FITC Conjugate. Purified Protein**  
Extracted from bovine articular cartilage

**BACKGROUND**

FITC-labeled bovine type II collagen substrate is an excellent substrate for examining collagenase activity. This labelled substrate is highly purified and telo-peptide free and is supplied as solution in acetic acid. To minimize background levels in collagenase assays, FITC-labeled collagen has been enzymatically pre-treated and further purified by ion-exchange chromatography.

FITC-labeled collagen can also be used as a substrate for cell culture. Collagen degradation products in the culture supernatants can be directly determined by measured the fluorescence at 520 nm (Emission)/490 nm (Excitation).

**ACTIVITY**

Used for the assay of mammalian collagenase activity.

**PURITY**

>95%

**REFERENCES**

1. Terato, K., et al. 'A rapid assay method of collagenase activity using <sup>14</sup>C-labeled soluble collagen as substrate.' *Biochim. Biophys. Acta* 1976, 445, 753-762
2. Sellers, A., et al. 'Evidence that latent collagenases are enzyme-inhibitor complexes.' *Biochem. J.* 1977, 163, 303-307
3. Shinkai, H., et al. 'A complex of collagenase with low molecular weight inhibitors in the culture medium of embryonic chick skin explants.' *J. Biochem. (Tokyo)* 1977, 81, 261-263
4. Shinkai, H. & Nagai, Y., 'A latent collagenase from embryonic human skin explants.' *J. Biochem. (Tokyo)* 1977, 81, 1261-1263
5. Murawaki, Y., et al. 'Serum collagenase activity in patients with chronic liver disease.' *J. Hepatol.* 1993, 328-334

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1099

**SIZE**

10 mg

**CUSTOMER STORAGE**

Product should be stored at -20°C.  
Aliquot to avoid freeze/thaw cycles

**FORMULATION**

Provided as a 1 mg/ml solution in 0.01M acetic acid.

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STABILITY**

Stable in acidic buffer when stored at -20°C, however slowly degrades when

**CONCENTRATION**

See vial for concentration

**SOURCE**

Bovine articular cartilage