

Certificate of Analysis

CORNING® COLLAGEN II, BOVINE

Type II Collagen is the principal collagenous component of cartilage, intervertebral disc and vitreous humour. It is also found in other tissues during development. Its main function is to provide tensile strength and give cartilage the ability to resist shearing forces. Type II Collagen supports chondrocyte adhesion and may influence the differentiated phenotype of these cells.¹

CATALOG NUMBER: 354257 LOT NUMBER: _____

SOURCE: Bovine articular cartilage

QUANTITY: 5 mg, at _____ milligram per milliliter, frozen.

FORMULATION: 15 mM Acetic acid

PURITY: ≥95% by SDS-PAGE.

USE: Corning Collagen II, bovine, is used for attachment and differentiation of chondrocytes.

QUALITY CONTROL: Corning Collagen II, bovine, is a membrane filtered (0.2 µm) preparation. Tested and found negative for the presence of bacteria, fungi and mycoplasma.

STORAGE: Stable when stored at -70°C. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN.**

EXPIRATION DATE: _____

REFERENCES: 1. Ayad, S., et.al., The Extracellular Matrix Facts Book (Second Edition.) Academic Press (1998).

Suggested Coating Procedures

Corning Collagen II, bovine, can be used as a thin coating on tissue culture plastic.

Thin Coating: We recommend using Corning Collagen II, bovine, as a thin coating at 5 µg/cm². Please use this as a guideline for determining the optimum concentration for your application.

- 1) Dilute Corning Collagen II, bovine, to 50 µg/mL using 0.015-0.1 N acetic acid. Collagen is insoluble at neutral pH.
- 2) Add enough diluted material to coat dishes with 5 µg/cm².

For example: A 35 mm dish has a surface area of approximately 10 cm². One to two mL of the above solution would be sufficient to cover the 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 may be air dried. They may be stored at 2-8°C for up to one week under sterile conditions.

NOTE: For more details on Corning Collagen products and technical resources please visit support page at www.corning.com/lifesciences

Use restriction for Europe and the United Kingdom: This product may only be used as *in-vitro* laboratory reagent. This product and its residue must not be allowed to come into contact with ruminating animals or swine.

Quality Assurance

Date