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## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** A33123H **Lot #:** 2K32215

**Description:** Human Collagen Type III

**Source:** Placental villi.

**Format:** Purified, Liquid

**Purification:** > 90% pure (SDS-PAGE). Controlled and limited pepsin digestion, followed by selective salt precipitation.

**Concentration:** 0.5 mg/mL

**Buffer:** 500 mM Acetic Acid

**Preservative:** None

**Applications:** Type III collagen standard.  
Antigen for antibody production.  
Coating material for cell culture studies.  
Formation of collagen gels.  
Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** The collagen may be transferred into physiological buffers by dialysis at 2–8°C. Purified collagen may be stored for several months at 2–8°C without appreciable loss of activity. Long term storage, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

**Inactivation:** Pepsin digestion and storage in 500 mM Acetic Acid.

**Warnings:** All materials should be handled as if potentially infectious. Generally accepted laboratory practices appropriate for infectious materials should be employed when handling this product.

**References:** The references listed below are for research purposes only:  
1. Miller, E.J., and R.K. Rhodes, (1982), Meth. Enzymol. **82**:33–64.  
2. Miller, E.J., In: Extracellular Matrix Biochemistry, K.A. Piez and A.H. Reddi, eds. Elsevier, New York, 1984. Pp. 41–81.

Signature

18 Nov 2015

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**