

## Collage recombinant human™ collagen type I

### Catalog number: S1019

VIRGIN HUMAN COLLAGEN TYPE I FOR LABORATORY RESEARCH

#### DESCRIPTION:

**Collage** recombinant human™ collagen is a freeze-dried Type I monomeric collagen, available in 30, 90, 300 or 1000 milligram aliquots. Collage is derived from tobacco plants transformed with the genes for human Type I collagen.

#### CHARACTERIZATION:

- **Fibrillogenesis:** >70%.
- **Purity:** **Collage** recombinant human™ collagen is pure collagen type I (>97%, no other type of collagen). Isolated from transgenic tobacco plants grown in a certified facility.
- **Polyacrylamide Gel Electrophoresis (PAGE):** SDS-PAGE demonstrates the banding pattern of type I collagen, with the majority of protein being monomeric alpha1 and alpha2 polypeptides.
- **Endotoxin:** **Collage** recombinant human™ collagen contains low level of endotoxin. The endotoxin level for each lot can be obtained by approaching CollPlant.

#### STORAGE:

**Collage** should be stored between 2°C - 40°C. Freezing is not recommended.

#### RECOMMENDED PROTOCOLS:

- **Resuspension:** Collage should be resuspended in 10 mM HCl to the desired concentration. Good results are expected at a concentration between 0.3% and 1%.
- **Preparation of collagen gel:** 10x fibrillogenesis buffer contains 162 mM sodium phosphate dibasic (Na<sub>2</sub>HPO<sub>4</sub>) adjusted to pH 11.2 with 10 N NaOH, filter sterilized. Mix 9 volumes of **Collage** 0.3%-1%, with 1 volume of 10x fibrillogenesis buffer. Mix well and incubate for 4 to 16 hours at 25°C to 27°C.
- **Coating of tissue culture dishes:** Use 3 to 10 microgram soluble **Collage** per 1 cm<sup>2</sup> dish area. For each cell type and plate type an optimization may be required. Dilute **Collage** in 10 mM HCl or PBS. Apply the diluted Collage to a tissue culture plate and allow to dry overnight in a laminar flow hood with the plate lid open. Aspirate gently the remaining liquid from the coated wells. Wash twice gently with PBS.

For technical support, please contact [collage@collplant.com](mailto:collage@collplant.com)

Lot number: XXXXXX Expiry date: XXXXXX