THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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Certificate of analysis

HUMAN PLACENTA Collagen-I (COL1), Batch #6

GTIN: (01)09120114890050(10)A5

Product description

Pepsin-solubilized atelocollagen allows growth of many cell types. It facilitates *in vitro* cultivation of cells and enhances cell-specific morphology and function. The recommended coating concentration is at least 0.2 µg/cm^2 of growth surface. COL1 is sterile filtered and can be ordered in liquid or freeze-dried condition in 7 mM HAc.

Test	Method	Specification	Result
0001 protein concentration	BCA	1 mg/mL	1,08 mg/mL
0002 protein composition	SDS PAGE gel	<95%	Pass
0003 pH		3.00 to 4.00	3.46
0004 documentation		Satisfactory	Satisfactory
0005 appearance		Satisfactory	Satisfactory

0001 protein concentration

Protein content of COL1 was determined using a bicinchoninic acid assay (BCA). Dilutions of bovine serum albumin (BSA) were used to generate a standard curve. Samples, standards, and BCA buffer were pipetted into 96-well plates and incubated at 37°C for 30 min. The absorbance was measured at 562 nm using the Byonoy plate reader.

Results: 1,08 mg/mL

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0002 protein composition

SDS PAGE was performed using the OmniPAGE Mini Electrophoresis System. 15 µg of COL1 was resolved on 7% gels using Laemli buffer and stained with Coomassie Blue staining.

Results

Figure 1: Coomassie blue stained 7% SDS-polyacrylamide gel showing COL1 as described in its original isolation protocol.[1]

Reference:

[1] **An Effective Method of Atelocollagen Type 1/3 Isolation from Human Placenta and its *in vitro* Characterization in Two-Dimesional and Three-Dimensional Cell Culture Applications.** Tissue Eng Part C Methods. 2017 May; 23(5): 274-285. Hackethal J., Mühleder S., Hofer A., Schneider K.H., Prüller J., Hennerbichler S., Redl H., Teuschl A.