



THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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Certificate of analysis

human placenta Substrate (hpS), Batch #4

GTIN: (01)09120114890029(10)A5

Product description

The extracellular matrix (ECM) is nature's ideal environment for human cells. ECM modulates a wide range of fundamental mechanisms in development, function and homeostasis of cells.

Human placenta substrate (hpS) contains ECM proteins such as laminin-111 as the major component (around 80-90%), collagen-4 (around 10%), bioactive growth factors and other minor components. It is treated with 25µg/mL Penstrep to prevent aerobic and anaerobic microbial growth and prepared to a protein concentration of 1-2 mg/mL in PBS. It is liquid and will not gel at 37°C. Addition of fibrinogen, collagen-1 or other polymers can be used for polymerization.

Test Description	Method	Specification	Result
0001 protein concentration	BCA	1.5 mg/mL	1.49 mg/mL
0002 protein composition	SDS PAGE gel	satisfactory	satisfactory
0003 pH		7.4	7.39
0004 documentation		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: 1,492 mg/mL



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0002 protein composition

SDS PAGE was performed using the OmniPAGE Mini Electrophoresis System. 15 µg of hpS (lane 1,2) was resolved on 3-8% gels using Laemli buffer.

Results

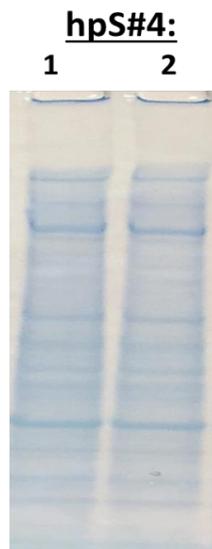


Figure 1: Coomassie blue stained 3-8% SDS-polyacrylamide gel showing hpS (lane1,2)