



THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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PRODUCT DATA SHEET

HUMAN PLACENTA ECM, powder

Comprising gamma-sterilized, DNA-reduced and freeze-dried extracellular matrix (ECM) proteins prepared from human placenta tissue. Transferring placenta over to THT Biomaterials is based on an informed consent from the newborn's mother.

Catalog Number #THT05000004-50/250 mg

Product description

The ECM is nature's ideal environment for growth and cultivation of human cells. The HUMAN PLACENTA ECM contains a variety of proteins, peptides, and amino acids. It is freeze-dried and suitable for many *in vitro* and *in vivo* applications. Mixing HUMAN PLACENTA ECM with 1 x PBS buffer, cell culture medium or HUMAN PLACENTA Substrate at 37°C enhances production of 3D gels. Please refer to certificate of analysis of the product for detailed information.

Precautions and disclaimer

For research use only. Please consult the Safety Data Sheet for information regarding hazards and safe handling procedures.

Storage and stability

Store HUMAN PLACENTA ECM at 4-8°C for up to 12 months, or -20°C for up to 24 months.

Application notes

The optimal concentration may differ for your applications and experimentation may be required to determine the optimal conditions for your cell culture experiments.

Guidelines for 3D gelling

1. Solubilize the ECM at your desired protein concentration using a stirrer and e.g. 1 x PBS, cell culture medium or HUMAN PLACENTA Substrate, on ice.
2. Check if all particles dissolved (this step usually takes 15-60 minutes, depending on the ECM amounts used).
3. Incubate for gel formation at 37°C. Gelation will depend on the amounts of ECM used. Note: gels must be handled carefully. Never touch the gel with the pipette tip.

References

1. Hackethal J, Weihs AM, Karner L, Metzger M., Dungal P, Hennerbichler S, Redl H, Teuschl AH. Tissue Eng Part C Methods. 2021 Nov;27(11):616-632.