



THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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Guidelines for use

Product: highly purified, human laminin-111 (Lm111) from human placenta. Useful for the attachment and growth of cells.

Catalog Number (CAS): THT0201

Revision: 16.05.2020

Form: liquid (please refer to vial label for lot-specific concentration).

Formulation: in PBS buffer

Purity: >95% by SDS-PAGE

Background: Laminin-111 allows growth of many cell types. It facilitates *in vitro* cultivation of cells and enhances cell-specific morphology and function. The recommended concentration is at least 0.2 µg/cm² of growth surface. Lm111 is liquid at a concentration of 0.5 mg/mL (> 95% purity by SDS-PAGE).

Source: human placenta. Prepared from pooled tissue of individuals that have been shown by certified tests to be negative for antibodies to HIV, HEP-B and TPHA (syphilis).

Storage/Stability

Lm111 should be stored at -80 °C for long-term storage. Freeze thaws should be minimized by an initial thaw, aliquoting into one time-use aliquots and freeze.

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling procedures.

Toxicity: standard laboratory handling.



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Procedure to use:

Note: The optimal concentration for cell attachment and culture may differ for different cell types, and experimentation may be required to determine the optimal conditions for your cell culture experiments.

Guideline for 2D coating tissue culture plates

1. Add sufficient volume of laminin-111 to provide desired coating concentration. A coating concentration of at least 0.2 µg/cm² is recommended, depending on the cell type. It is important that the volume added to the dish is sufficient to cover the growth surface. If necessary, dilute Lm111 stocks with PBS buffer or sterile water.
2. Keep the growth surface completely covered and incubate for 2 h at 37°C.
3. Tilt the dish just enough to allow excess Lm111 to drain to the lowest point in dish and remove excess material with a sterile pipette.
4. Wash three times with PBS.
5. The plates are now ready for use and should not dry out.

References

1. Hackethal J, Schuh C, Hofer A, Meixner B, Hennerbichler S, Redl H, Teuschl AH. *Human Placenta Laminin-111 as a Multifunctional Protein for Tissue Engineering and Regenerative Medicine*. Advances in Experimental Medicine and Biology (AEMB) Series: Novel Biomaterials for Regenerative Medicine 2018.
2. Schuh C.M.A.P., Monforte X, Hackethal J, Redl H, Teuschl A.H. *Covalent binding of placental derived proteins to silk fibroin improves Schwann cell adhesion and proliferation*. J Mater Sci: Mater Med 27:188, 2016.