BioLamina
REVOLUTIONIZING CELL CULTURE

RELIABLE AND COST-EFFECTIVE hPSC EXPANSION

SAVE TIME AND MONEY WITH THE LAMININ-521 CELL CULTURE MATRIX

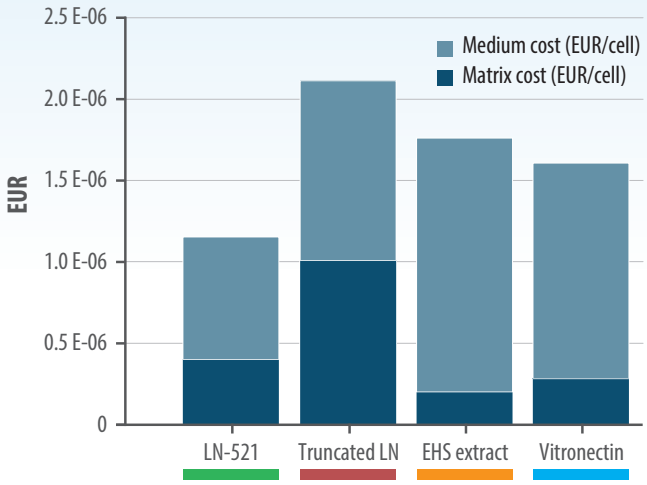
Saves time and money!

Due to faster growth rate and higher cell yield, the total cost per cell for an average passage is lowest for laminin-521 (LN-521), compared to other feeder-free matrices. To minimize cost, simply adjust the culture ware size to fit your need.

Additional key advantages

- Defined and xeno-free cell culture matrix for clinical compliance
- No lot-to-lot variability gives consistent and standardised experiments
- Homogenous and genetically stable hPSC cultures without need to remove differentiated parts
- Biorelevant matrix that triggers authentic cell signalling pathways which generates hPSCs with a more uniform gene expression profile
- The priming effect gives more efficient differentiation and enhances cell maturation, polarization and functional organization
- Flexible culture system that is easy to control: compatible with any medium, supports weekend-free feeding, cells can be passaged as single cells without ROCKi, seeded at low density and can be cultured to high confluence

Cost/cell for an average passage



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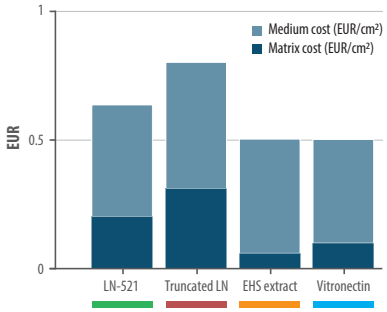
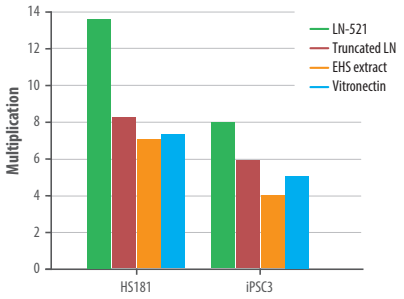
This is how it is possible!

Cost/cm² for an average passage



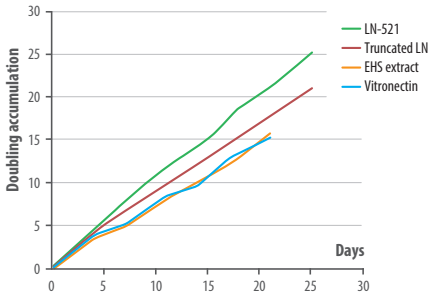
The cost for matrix (dark) and medium (light) is calculated based on list prices available. LN-521 coating concentration used is 0.5 ug/cm². All other matrices are used according to manufacturer's instructions. The media volume used is 0.2 mL/cm², with daily medium changes. The number of culture days per passage is based on the average of 5-6 passages for two cell lines (HS181 and iPSC3).

Average multiplication/passage



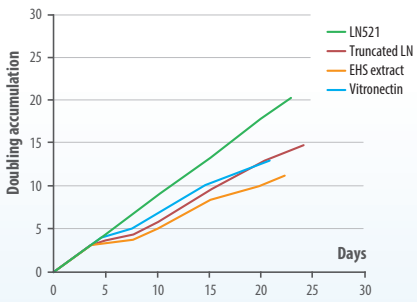
Higher cell yield on LN-521. Multiplication per passage for the HS181 (hESC) and iPSC3 (iPSC) cell line is based on the average of 5-6 passages. Seeding density 50.000 cells/cm².

HS181 amplification rate



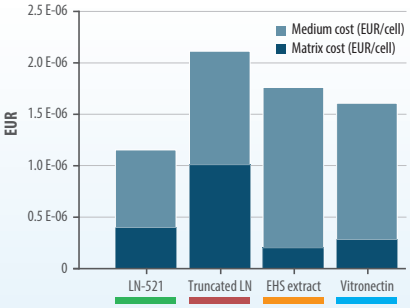
LN-521 supports the highest amplification rate. Doubling accumulation over time is calculated as the sum of the HS181 multiplication (log2) for every passage (5-6 passages).

iPS C3 amplification rate



LN-521 supports the highest amplification rate, also for slower growing cell lines. Data for iPSC3 cultured 5-6 passages.

Cost/cell for an average passage



Due to higher cell yield and faster growth rate, the cost for matrix (dark) and medium (light) per cell for an average passage is lowest for LN-521. Together with the key benefits listed above, the LN-521 culture system saves both time and money.

For more information visit
www.biolamina.com