



**NEW PRODUCT**

**SPECIAL OFFER**  
**50% OFF BIOSILK 521**

Get 50% off your total Biosilk 521 purchase when you place your order in our web shop or by email to [orders@biolamina.com](mailto:orders@biolamina.com). Valid for one transaction only and cannot be combined with other offers. Valid until September 30<sup>th</sup>, 2019. Please mention promo code: Biosilk\_2019.

**3D MATRIX**





**BioLamina**

REVOLUTIONIZING CELL CULTURE

# BIO SILK 521

A NATURAL BIOMATERIAL FOR 3D CULTURE

BioSilk 521 is made of recombinant spider silk protein, functionalized with laminin 521 protein. BioSilk 521 has unique, functional properties which makes it ideal for integration, proliferation and subsequent lineage-specific differentiation of human pluripotent stem cells in a 3D format.

- **Flexible 3D system**
- **Generates perfusable organoid structures**
- **Elastic microfibers that mimic the ECM**
- **Biocompatible & non-immunogenic**
- **Biodegradable**
- **Defined and animal component-free**



[WWW.BIOLAMINA.COM](http://WWW.BIOLAMINA.COM)

# THE FIRST 4D SCAFFOLD FOR ORGANOID RESEARCH

- Biosilk™ is a natural biomaterial made of recombinant silk that easily can be biofunctionalized with different ECM proteins, such as laminins, to better replicate the authentic cell environment
- Biosilk 521 is ideal for integration, proliferation, and subsequent lineage-specific differentiation of human PSCs and progenitor cells
- The mild assembly process enables an instant and even cell integration and attachment between the Biosilk microfibers.
- Biosilk promotes the formation of focal adhesion points and facilitates cell migration that promotes cell-cell contacts
- hPSC efficiently proliferates, expand and form shapeable, macro-sized 3D constructs with an even distribution of a homogenous pluripotent that can be in situ differentiated
- Diffusion of oxygen, nutrients, and patterning factors make it possible to generate larger organoids with more effective and uniform cellular specialization and organization, without increased risk of necrotic centers
- Long-term cell survival without the need for encapsulation
- Stimulates cellular self-organization and morphogenesis
- Elastic material that can be formed into different structures
- Organoids can be generated from a variety of tissues
- Can be sterilized through autoclaving with retained morphology, structure, and properties
- Biocompatible & non-immunogenic
- Biodegradable
- Defined and animal origin-free



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521**



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