



ECM MIMICS:





Faster crosslinking = higher cell viability

X FAST INX[®] provides all the benefits of gelatin while benefit⊠ng from our patented **CURADUO**[®] technology. This results in up to 33 % faster UV crosslinking, and therefore a reduced prin⊠ng ⊠me.

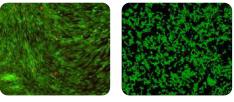
Based on gelatin derived from natural collagen which is modified with photo-crosslinkable func⊠onal groups. In the presence o he supplied XL crosslinker, it can be crosslinked with unprecedented efficiency. It resembles the natural ECM even more and is characterized by high cell viabili⊠es (> 94% according to ISO 10993-5).

Key Proper⊠es:

- Biocompatibility: supports cell adhesion and proliferation.
- Reproducibility: ProducIon under strict quality control
- **Biodegradability**: enables **cellular remodelling** o he printed matrix.
- Easy handling: Delivered in a ready-to-use cartridge. Ready for printing aller heating and adding the supplied crosslinker
- UV-crosslinkable: CURADUO[®] based faster crosslinking

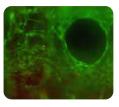
Applica⊠on poten⊠al (soon to be expanded):

Adipose Tissue

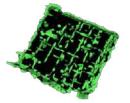


ASC





HFF





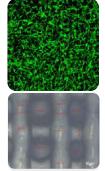




XPECT O.

Gelatin-Methacrylamide, first developed in our lab in 2000, has emerged as one o he gold standards in Assue engineering and biofabrica on worldwide.

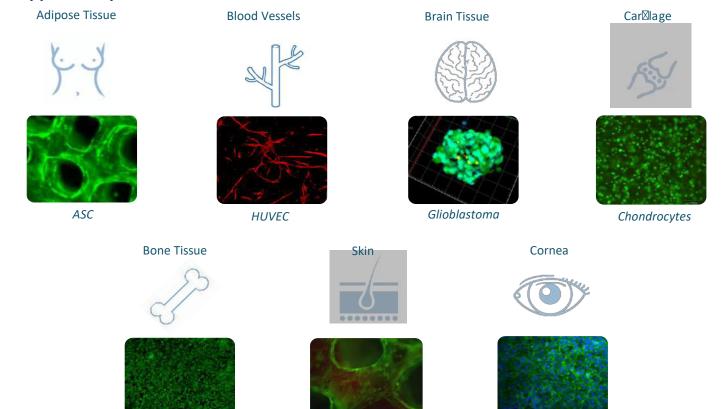
X GEL-MA INX[®] is based on gela⊠n derived from natural collagen which has been modified with photopolymerizable func⊠onal groups which allow crosslinking o ydro gel a⊠er prin⊠ng.



Key Proper⊠es:

- Biocompatibility: supports cell adhesion and proliferation.
- Reproducibility: Producion under strict quality control
- Biodegradability: enables cellular remodelling o he printed matrix.
- Seasy handling: Delivered in a ready-to-use cartridge. Ready for prin⊠ng after hea⊠ng
- UV-crosslinkable

Applica⊠on poten⊠al:



Osteoblasts









SCAFFOLD INX:



Hydrogel printing has never been easier



X HYDROMELT INX[®] is a synthe^{II} c hydrogel based on our patented CURASOL[®] technology. It allows processing from melt rather than from solution. Aller swelling, a very strong and robust hydrogel is obtained.

It is non-biodegradable and biologically inert, but can be coated with the provided coaling to allow cells to adhere and proliferate on the scaffold.

Key Proper Ses:

- **Biocompatibility**: biocompa^Ible and non-cell interac^Ive
- **Reproducibility**: Produc^{II} on under strict quality control
- **Biostable**: suitable for long term applicalons.
- Processability: The only hydrogel formula Ion which can be processed as a thermoplas han ks to CURASOL® technology
- **Easy handling**: Delivered in a **ready-to-use** cartridge. Ready for prinking after heaking
- UV-crosslinkable: CURASOL® based solid-state crosslinking
- **Mechanical integrity:** Very robust hydrogel suitable for stiff Ssue engineering applica^{II}ons

Applicaion potenial (to be expanded):



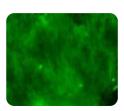
Osteoblasts





Chondrocytes





HFF







SCAFFOLD INX:



No need for heat



X SOLID INX[®] is a photo-crosslinkable synthe biodegradable polyester based on our patented **CURASOL**[®] technology. It combines the benefits of conventional stiff polyester materials with low temperature (< 80 °C) processability.

It is biologically inert, but can be coated with the provided coaling to allow cells to adhere and proliferate on the scaffold.

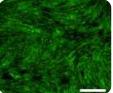
Key Proper⊠es:

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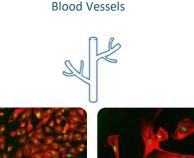
- **Biocompatibility**: biocompa^Ible and non-cell interac^Ive
- Reproducibility: Produc⊠on under strict quality control
- Biodegradable
- Processability: Thanks to the CURASOL® technology, the material can be processed at low temperature followed by photocrosslinking
- - Basy handling: Delivered in a ready-to-use cartridge. Ready for prin⊠ng after hea⊠ng
 - UV-crosslinkable in the solid state thanks to the CURASOL® technology
 - Mechanical integrity: Very robust polyester suitable for stiff Ssue engineering applica ons

Applica⊠on poten⊠al (to be expanded):





HFF



HUVEC

SMC





SCAFFOLD INX:



X STABLE INX[®] is a synthe⊠c shear thinning, bio-interac⊠ve scaffold ink. It allows for easy prin⊠ng due to its **shear thinning behaviour**.

It is cell interac⊠ve and non-biodegradable. Therefore, it can provide long las⊠ng support to the cells. A⊠er photo-crosslinking, a very robust hydrogel is obtained.

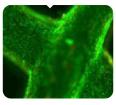
Key Proper⊠es:

- Biocompatibility: biocompa^{II}ble and cell interac^{II}ve
- Reproducibility: Produc⊠on under strict quality control
- **Biostable**: suitable for long term applica Mons.
- Processability: The shear thinning behaviour allow easy printing at a broad temperature range
- Easy handling: Delivered in a ready-to-use cartridge. Ready for prinIng
- UV-crosslinkable
- Mechanical integrity: Very robust hydrogel suitable for stiff Ssue engineering applicasons

Applica⊠on poten⊠al (to be expanded):

Bone Tissue





Osteoblasts





nHDF









FELIX BIOprinter

High Performance Customizable 3D BIOprinting

Features

- Open Source Bio Materials
- Fully Sterizable
- Designed to use standard 5ml syringes / petri dishes / culture plates
- Powerful Felix touch screen interface adaptable to multi-machine farm operations
- Syringe cooling / heating
- Print Bed cooling / heating
- Dual syringe system with fast and easy change-over
- Easy syringe positioning
- Automatic bed leveling
- Virtually silent operations
- Fully upgradeable







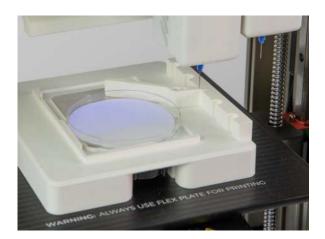


FELIX BIOprinter

Complete Unit Includes: 2x Print-heads with heating and cooling ability Touchscreen WiFi connectivity Simplify 3D software Accessories Box with Syringe,Needles,Petri Dish etc.

Transparent Cover Protects from external elements.





UV Light Module

UV Light Modules allows using UV Gels and Bio Materials.Polymerization to cure printed objects layer-by-layer.Modular design can be attached to the printer.

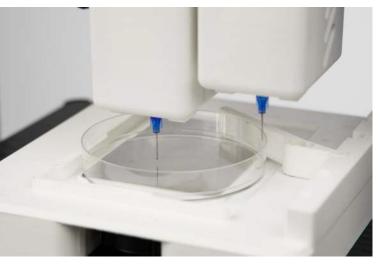
Print Bed Module The Print Bed Module secures petridishes and wells stability and accuracy.

It can hold 40 to 100ml petri dishes.

Designed to secure well plates.

Cooled & heated bed module, from 2°C to 50°C layer-by-layer.

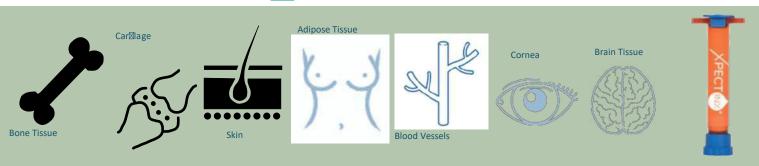
Modular design can be attached to the printer.













XHYDROMELT

