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Coating Protocol

CELLINK PrintGlue

This is a suggested procedure, please adjust according to your experimental needs.

Protocol aim

The aim of this protocol is to provide instructions for coating of 3D bioprinting substrates with CELLINK® PrintGlue, and subsequent use of coated substrates for bioprinting. CELLINK PrintGlue is specifically intended for increasing attachment of constructs printed with bioinks from the CELLINK and GelXA series.

Materials needed

- CELLINK PrintGlue*
- Substrate of choice (well plates are preferable)
- Dry incubator/lab drying oven
- Bioink of choice*
- Crosslinking agent for CELLINK and GelXA series bioinks*
- Cells + cell culture medium
- Pipette + pipette tips

*The product can be purchased in the CELLINK store at *www.cellink.com/store/*.

Coating protocol

Step	Title	Material	Description
1	Prepare coating solution	- CELLINK PrintGlue	Shortly vortex CELLINK PrintGlue to ensure homogenous mixing.
2	Dispensing	- Pipette - Pipette tips	Define the well area of the used substrate. Dispense 90 µL/cm^2 of CELLINK PrintGlue.
3	Spreading	- Substrate of choice	Coat the substrate by gently hitting it from all directions.
4	Heat treatment	- Dry incubator/lab drying oven	Close the substrate, seal it with stretched parafilm and place in dry incubator/oven.

Boston, USA
75 Kneeland Street
Boston, MA 02111

Gothenburg, Sweden
Arvid Wallgrens Backe 20,
Gothenburg, 41346

Blacksburg, USA
2000 Kraft Dr, Suite 2125
Blacksburg, VA 24060

Kyoto, Japan
46-29 Yoshida-Shimo Adachi-cho, Sakyo-ku, Kyoto

www.cellink.com | +1 (833) CELLINK

			Let it dry at 55°C for 2h or longer, until completely dry.
5	Storage	- Sealed plastic bag	For eventual storage at room temperature, keep the substrate in a sealed plastic bag to prevent any external effect on the coating. However, best results are obtained if used directly after heat treatment.

Printing protocol

Step	Title	Material	Description
1	Print	- Bioink/cell loaded bioink - Crosslinking agent	Print and crosslink on the coated substrate, following the bioink specific printing protocol. Make sure to not scratch the surface. Note: Use of CELLINK PrintGlue is recommended for ionically crosslinked CELLINK and GelXA series bioinks.
2	Maintenance	- Cell culture medium	Add/remove media by tilting the substrate and positioning the pipette in the bottom corner. For better results do not use laboratory aspirator.

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