

CELLINK SKIN FIXATION PROTOCOL

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

Aim of the protocol:

This protocol is used for the fixation of cells in a cell-laden 3D bioprinted construct.

Materials needed:


- Paraformaldehyde (PFA). PFA must only be handled inside a fume hood
- 50 mM CaCl₂ (CELLINK Cross-linking solution is 100 mM CaCl₂)
- Hank's Balanced Salt Solution (HBSS)
- Cell-laden 3D bioprinted constructs

Protocol:

All handling and use of PFA must be done inside a fume hood with proper PPE.

Step n°	Title	Material	Description
1	Wash	▪ HBSS	❖ Wash cell-laden 3D bioprinted constructs in HBSS 15 min at 37°C.
2	Fixation	▪ 4% PFA ▪ 50 mM CaCl ₂	❖ Fix the constructs in 4% PFA supplemented with 50 mM CaCl ₂ , 1h at RT.
3	Wash	▪ HBSS	❖ Wash the constructs 2x5 min with HBSS at RT.
4	Storage	▪ HBSS ▪ 50 mM CaCl ₂	❖ Store at 4°C in HBSS supplemented with 50 mM CaCl ₂ .*

*For long time storage store at 4°C in 70% ethanol.

 Want to see our talented Biologist proceed to this protocol? Feel free to find the video here:

<https://www.youtube.com/...>

Applications:

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- ➔ Link to Videos of some applications
- ➔ photos of some applications



Want to see our existing tissue model?

Just go to <http://bioverse.co/> and discover a whole library of CAD files especially created for sharing 3D Bioprinting models.

- This protocol is optimized based on CELLINK™ Bioink, and may need further optimization for other bioinks. For more information, please contact: bioinkteam@cellink.com

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