

## CELLINK FIBRIN 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 CaCl<sub>2</sub> (CELLINK Cross-linking solution is 100 mM CaCl<sub>2</sub>)
- 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 <sub>2</sub>	❖ Fix the constructs in 4% PFA supplemented with 50 mM CaCl <sub>2</sub> , 1h at RT.
3	Wash	▪ HBSS	❖ Wash the constructs 2x5 min with HBSS at RT.
4	Storage	▪ HBSS ▪ 50 mM CaCl <sub>2</sub>	❖ Store at 4°C in HBSS supplemented with 50 mM CaCl <sub>2</sub> .*

\*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:

CELLINK AB

Arvid Wallgrens Backe 20  
41346 Gothenburg,  
SWEDEN

675 W Kendall St,  
Cambridge, MA 02142  
USA

Yoshida-honmachi,  
Sakyo-ku, Kyoto 606-8501

CIN No.: 559050-5052

JAPAN

- ➔ 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](mailto:bioinkteam@cellink.com)

## CELLINK AB

Arvid Wallgrens Backe 20  
41346 Gothenburg,  
SWEDEN

675 W Kendall St,  
Cambridge, MA 02142  
USA

Yoshida-honmachi,  
Sakyo-ku, Kyoto 606-8501

CIN No.: 559050-5052

JAPAN