

CELLINK® SKIN

Description

CELLINK® SKIN bioink has been developed for application as a bioink for the fabrication of skin or skin related constructs. This bioink incorporates fibrinogen to recapitulate the native wound healing environment found in native tissue, particularly in skin. Fibrinogen is a critical protein that is found in the development and maturation of skin constructs. CELLINK® SKIN to be perfectly adapted for printing skin models for research and testing. Combine with our **VASKIT** to develop vascularized skin models! This bioink retains the excellent printability and ease of cross-linking found with the universal CELLINK® bioink.

Application

CELLINK® SKIN has been optimized for the fabrication of skin constructs. These constructs can be comprised of fibroblasts and keratinocytes in multilayered structures. Please see the Skin Model Printing Protocol for more details.

Storage

CELLINK® SKIN should be stored at 4°C. The shelf life of CELLINK® SKIN is 3 months. Ensure the cartridges are capped prior to storage to prevent drying.

Mixing with Cells

We suggest you mix CELLINK® SKIN with a high concentration of cells and bioprint everything in one run with one printhead. You can either mix the cells manually or use our revolutionary **STARTINK-Kit** with our **CELLMIXER**, which is specifically designed to simplify the mixing process and offers a homogeneous suspension with an increased cell viability.

Crosslinking

CELLINK® SKIN is simply crosslinked with our crosslinking solution containing CaCl₂. Once your construct has successfully bioprinted, apply enough droplets to cover the construct. A 5-minute incubation is sufficient for most bioprinted structures. After that time, remove the crosslinking solution and wash with PBS and replace with the desired cell culture media.

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