

CELLINK® SKIN+

Description

CELLINK® SKIN+ is an enhanced composition of our CELLINK® SKIN bioink. CELLINK® SKIN+ contains both *in situ* fibrin and fibrinogen, optimized for the culture of fibroblasts and keratinocytes utilized for the fabrication of skin constructs. This enhancement provides a more physiological environment for the engineering of skin. CELLINK® SKIN+ also contains an enhanced cross-linking solution that contains both thrombin and an ionic binding agent, permitting the development of a compound network that offers unparalleled stability. Combine with our **VASKIT** to develop vascularized 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 enhanced crosslinking solution containing thrombin and 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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