

Application Note

CELLINK XPLORE

Description

Similar to CELLINK® Bioink, CELLINK XPLORE boosts excellent printability and viscosity while retaining structural integrity after printing and crosslinking. CELLINK XPLORE is available in a variety of colors in order to better visualize printing complex structures with several printheads at a time.

Application

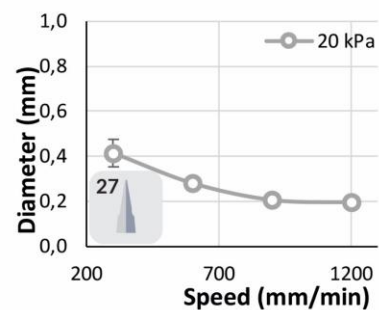
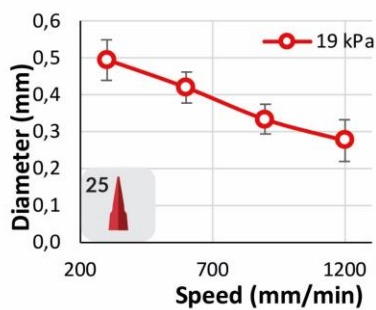
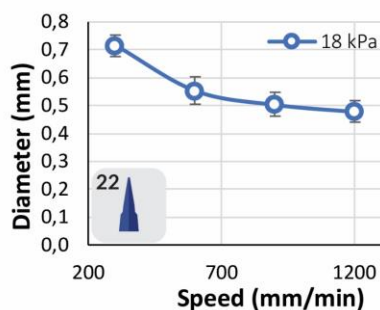
The CELLINK XPLORE is specifically designed for demonstration purposes and for visualization of different compartments within a construct. CELLINK XPLORE should not be mixed with cells or used in sterile applications.

Storage

Store CELLINK XPLORE between four and twenty-four degrees Celsius. CELLINK XPLORE has a shelf life of six months. To prevent drying, cap the cartridges prior to storage. Keep CELLINK XPLORE unfrozen – placing CELLINK XPLORE in the freezer risks impairing its printability.

Printing Parameters

CELLINK XPLORE is not sensitive to the thermal environment during printing and can be printed at room temperature with pressures ranging from 18-30 kPa for nozzle sizes of 20-27G. The graph displays the filament thickness achieved using the minimal pressure needed for extrusion of a continuous filament at 600 mm/min. It is recommended that the nozzle be replaced if printing is paused for more than 5 minutes as CELLINK XPLORE may dry at the tip and clog the nozzle during inactivity.



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Crosslinking

CELLINK XPLORE crosslinks easily with our CaCl₂-containing crosslinking solution. Once your construct has been successfully printed, apply enough droplets to cover the construct. A 30-second to 5-minute incubation time is sufficient for most printed structures. After that time, the crosslinking solution can be replaced with Hanks' Balanced Salt solution containing calcium, if desired.

For easier and more precise dispensing of crosslinking solution, use the **Syringe Printhead** as a second printhead to dispense crosslinking solution onto the newly printed construct.