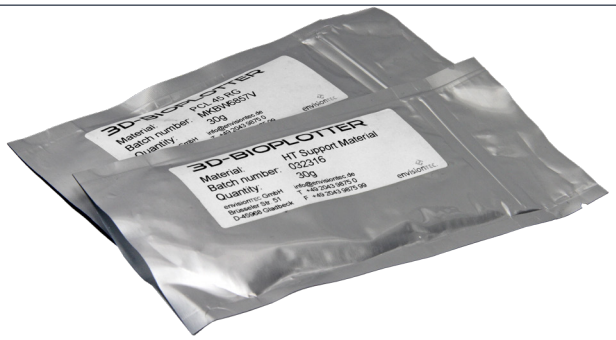
LT Support RG

Let us print your part![1]



Complex three-dimensional shapes often require a sacrificial, easily removable material as support for overhangs. A sacrificial material also eliminates the requirement of having a flat surface on the printed part to attach to the platform.

This cellulose derivative can easily be processed as a hydrogel in short to medium length jobs. Additionally, this material can be dispensed with other hydrogels without directly dissolving the sacrificial materials. The support material can be removed after printing by placing the completed part in a distilled water or nutrient media bath at body temperature. Full dissolution may take several hours depending on liquid movement and temperature.

The material is biocompatible and cell friendly, ensuring that residue materials does not negatively affect the final object's biological properties.

Material Properties[2]	
Description	Value
Material Type	Saccharide
Curing System	None/Evaporation
Appearance (Color)	Transparent Gel
Appearance (Form)	Powder
Molecular Weight	40000 Da
Solubility	Dichloromethane, Chloroform
Processing Temperature	23°C
Printing Surface	Petri Dish / Well Plate
Processing parameters available for	0.2mm / 0.25mm / 0.4mm needle tips
Printing Speed (at 1 bar pressure)	10 - 8 mm/sec
Grade	Research Grade
Degradation Period in biological systems	Dissolution within Hours in Water

Typical Application
Drug Delivery, Cartilage Regeneration, Bone Regeneration

Recommended 3D Printer Family
3D-Bioplotter

[1] Learn more at EnvisionTEC.com/printmypart
[2] All data provided is preliminary and must be verified by the individual user