LULZBOTDesigned for the Lab. Real Materials, Real Innovation.

Syringe Pump Extruder





Material Options



Heated Glass Print Bed



FRESH™ Certified High-Detail Bioprinting

The LulzBot Bio is optimized for **FRESH**[™] (Freeform **R**eversible **E**mbedding of **S**uspended **H**ydrogels) printing. Out of the box, users can print real, unmodified collagen, alginate, and other soft materials. With this tool, researchers are closer than ever to recreating human physiology for in vitro testing and regenerative medicine. An ultra-precise syringe pump extruder makes the Bio ideal for printing multi-scale vasculature, fully functional heart tissue, and more.



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6.30" x 6.30" x 3.5"**

FEATURES

Designed for the Lab



The small footprint and large build volume easily fits within laminar flow cabinets or on lab counter tops. The rugged design can easily be sterilized for printing cells using ethyl alcohol and UV lights.

Syringe Pump Extruder



With the syringe pump extruder, you can precisely control material flow, which makes it possible to print high-detail objects in a wide range of viscosities and materials using the FRESH™ Certified process.

Heated Bed



Material Options



LulzBot Bio's open materials system offers ready-to-print profiles for alginate and unmodified collagen. With the Bio's configurable syringe pump and extrusion settings, you can quickly adapt to new materials and processes.

Easy-To-Use Interface



WHAT'S INCLUDED

1 ea 2.5mL, 5mL, 10mL Syringe Base

1- Quick Start Guide

1- Power Cord

and Clamps

2- Syringe Thumb Screws

1- USB Cord

1- SD Card

The Bio features a 4.5" glove-friendly touch screen and SD card slot for easy operation without the need to be tethered to a computer.

160 x 160 x 89 mm **Printer Dimensions** 18" x 13" x 15" 457 x 330 x 381 mm **Operating Footprint Area** 30" x 25" x 21" 762 x 635 x 533 mm Net Weight 18.92lb 8 58kg **Print Head** LulzBot Syringe Pump Extruder (Compatible with 2.5mL, 5mL, and 10mL syringes) Print Technology **FRESH™** Certified (Freeform Reversible Embedding of Suspended Hydrogels) FRESH™ acronym is a Trademark of FluidForm™ 3D Bioprinting XYZ Motion & Resolution Motion: Belt Driven Resolution: 10, 10, <5µ Ambient Operating Temperature The LulzBot Bio's variable temperature 41° F to 104° F 5° C to 40° C 70° F (21° C) ideal for FRESH™ printing process heated bed allows full control of environmental conditions during printing, **Build Plate** ensuring the integrity of the print from Glass bed - Heated borosilicate glass Maximum print surface temperature: Up to 110° C (230° F) Power Single Phase, 100VAC - 240VAC, 50/60Hz, Auto-switching MEAN WELL RSP-500-24, 24VDC, 500W, 21A

Print Area

Slicing Software Cura LulzBot Edition - Version 3.6.22 or newer **Operating System** Windows, Mac, GNU/Linux Firmware Marlin Supported File Types .stl, .obj, .g, .x3d, .3mf, .gcode Certification ETL/UL, CSA, FRESH™ Country of Origin United States of America Warranty Includes one-year factory warranty.

Optional one, two, and, three-year extended warranties available.

** Z dimension variable based on needle length and dish size. Notice: This document is based on Beta hardware and is subject to change. The FRESH™ acronym is a Trademark of FluidForm™ 3D Bioprinting. LulzBot is a registered trademark of FAME 3D.

- 1- Plastic Petri Dish, 35mm
- 1- KIMAX crystallizing dish, 50mL
- 1- Celltreat Petri Dish
- 1- Spoon Scoopula
- 2- Cole-Palmer Female Luer
- 2- Cole-Palmer Male Luer

- 1- Specimen Cup w/ Lid
 - 1- Transfer Pipette
 - 1- Ball Hex Key Wrench Set

LulzBot.com sales@LulzBot.com +1-701-809-0800

The images and items listed in this document may differ from the actual shipped product.

start to removal.

- 1- Tool Kit Bag
- 1- Gastight Glass Syringe, 2.5mL
- 50- 25 gauge dispensing needles
- 50- 30 gauge dispensing needles

2- Hypodermic Luer Lock

- 5- LifeSupport[™] Support Material, 50g
- 1- Sodium Alginate, 50g
- 1- CaCl, 5g
 - 1- Vacuum Grease, 1oz
 - 1- Metal 150mm Ruler