

LULZBOT[®] Bio Specifications

Printing

Print Technology	Fluid Deposition Fabrication
Print Head	Syringe Pump Extruder
Maximum Print Area	160mm x 160mm x 89mm ¹ (6.30in x 6.30in x 3.5in ¹)
Minimum Layer Resolution	50 µm ²
Minimum Positive Feature Size	80 µm ³
Calculated XYZ Positional Resolution	10, 10, 5 µm
Recommended Operating Temperature	From 5°C to 40°C (41°F to 104°F)
Operating Footprint	45.7cm x 40.6cm (18in x 16in)
Connectivity	USB Serial and SD Card
Print Surface	Heated Borosilicate Glass
Maximum Print Surface Temperature	Up to 120°C (248°F)
Print Surface Heat Up Time	23°C to 60°C (73°F to 140°F) in 97 seconds
Interface	Glove-Friendly 4.5" Touch-Screen

Materials	Open materials system including ready-to-print profiles for alginate and collagen.
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Software

Operating System Compatibility	GNU/Linux, Mac, Windows
Recommended Software	Cura LulzBot Edition (Latest Version)
Firmware	Marlin
Supported File Types	.stl, .obj, .g, .gcode, .x3d, .3mf

Electrical

Power Requirements	100VAC-240VAC, 50Hz-60Hz, 3.2A max
Output	24VDC
Power Supply	IEC cord, C13 to region-specific connector

Safety and Compliance

Certifications	UL (Pending), FCC, CE, WEEE, CSA, RCM, OSHWA
Warranty	Includes one-year warranty and access to technical support seven days a week. Optional one, two, or three-year extended warranty and support terms are available.

¹Z dimension variable based on needle length and dish size.

²Lowest preset profile. Future updates will provide lower layer heights.

³Dicated by inner diameter of dispensing tip. 80 µm figure based on smallest commercially available dispensing tip with Luer Lock.

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Country of Origin
What's Included**

Made in USA from domestic and imported components.

LulzBot Bio

Power Cord

USB Cord

SD Card

Quick Start Guide

50g Sodium Alginate

LifeSupport™ support material

1g Alcian Blue 8GX – Water soluble cationic dye

Calcium Chloride

Hamilton 2.5 mL Gastight Syringe Model 1002 TLL

Box of needles (50pk) - 25 gauge

Box of needles (50pk) - 30 gauge

2 Syringe thumb screws

35mm Petri dish

Glass 50mL Crystallizing Dish

Vacuum grease

Allen wrench set

Long nose pliers

Ruler

Tweezers

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**Contents of tool bag subject to change.