

MATERIALS + RECIPES

[Fiona Bell / Leah Beuchley Biomaterial Recipes for 3D Printing](#)

[Materiom materials reference database](#)

[Collection of recipes and experiments from 2022 MICA class](#)

[A.LIVE Bioplastic Cook Book - Great examples and descriptions](#)

STARTER MATERIALS:

BIOPOLYMERS: (thickening, durability, texture, strength)

Agar, carrageen, cornstarch, potato starch, alginate

PLASTICIZERS: (flexibility)

glycerine, sorbitol

ADDITIVES: (various qualities- stability against shrinkage if too much water)

vinegar, sunflower oil, soap, baking soda, clay powder, fiber, wax, eggshells, coffee grounds, orange peels

3D PRINTER SLICERS FOR BIOMATERIALS

[Hand + Machine various SLICER for 3D printing with Biomaterials](#)

[Test print STL files](#)

Some recommended tools to get set up for 3D oozing with biomaterials:

[Eazao Heater](#) added to print head suggested for uniform printing qualities

Food dehydrator - to prevent uneven shrinkage and cracking

[Screenshot 2026-05-29 at 6.12.47 PM.png](#)

