Our Universal Bioink™ Kits are a multi-component polymeric mixture, selected to replicate the extracellular matrix of living tissues. Engineered for versatility, these kits enable the creation of 3D hydrogels mimicking the chemical and mechanical properties of soft tissue types. Our bioink is truly universal, offering compatibility with bioprinting technologies, including extrusion-based and digital light processing (DLP) systems. Ready to be reconstituted, with multiple media compatibility for various cell lines; unlock the potential of VoxCell BioInnovation' s Universal Bioink™ Kits.

Key Features

Mimics Native Tissue — Replicate the chemical and mechanical compositions of soft tissues, facilitating a natural cellular environment ex vivo

Universal Bioprinting — Compatible with 3D bioprinting systems including extrusion and DLP

Shelf Life — Provided in a dry form, extending shelf life to up to six months when stored at -20 ℃, ensuring on-demand access and reducing waste

Full Customization — Offers flexibility in media choice, aligning with researchers' preferences and enhancing usability

Properties & Processing

Physical Properties	VoxCell's Universal Bioink™ Kit
Appearance of the Powder	White at 20 °C
Elastic Modulus (kPa)*	80 ± 10
Shelf Life (Solid form, as received)**	6 months
Shelf Life (Reconstituted)***	10 days

* Oscillatory testing via Anton Paar MCR 302 Rheometer at 23 °C
** Stored at -20 °C, in the absence of light
*** Stored at 4 °C, in the absence of light

3D Printer Compatibility

Our Universal Bioink™ Kits have been used repeatedly and successfully with multiple bioprinting technologies including extrusion and DLP.