

Supplementary Materials

Freeform 3D bioprinting involving ink gelation by cascade reaction of oxidase and peroxidase: A feasibility study using hyaluronic acid-based ink

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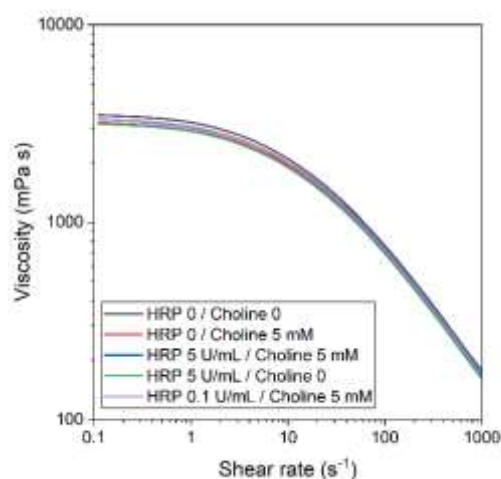


Figure S1. Effect of the contents of HRP and choline on the shear rate-viscosity properties of inks containing 1.25% (*w/v*) hyaluronic acid derivative possessing phenolic hydroxyl moieties. The shear rate-viscosity properties were measured using a rheometer (HAAKE MARS III, Thermo Fisher Scientific, Waltham, MA) at 25 °C.

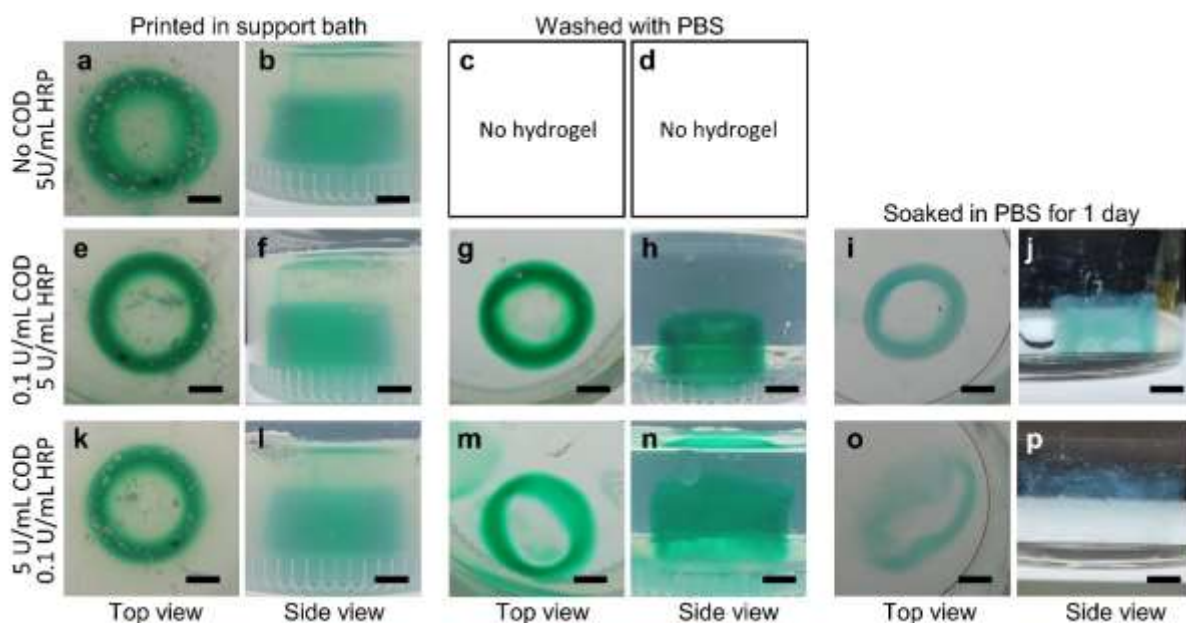


Figure S2. Effect of the contents of COD in support bath and HRP in ink on the printing of cylindrical-shaped hydrogel constructs. **a, b, e, f, k, l**) just after extruding ink containing 1.25% (*w/v*) hyaluronic acid derivative possessing phenolic hydroxyl moieties, 5 mM choline chloride, and HRP into support baths containing 1.0% (*w/v*) xanthan gum and COD, and **c, d, g, h, m, n**) after washed with PBS for removing xanthan gum, and **i, j, o, p**) the constructs after 1 day of soaking in PBS. The contents of COD and HRP are shown on the left side of panels **a, e, k**. Bars: 5 mm.