**Figure Captions**

Figure S1. Interfacial tension of HIPEs stabilized by OSA-modified starch (5 wt%) at different pH conditions.

Figure S2. Interfacial tension of HIPEs stabilized by OSA-modified starch (5 wt%) at varying ionic values of 0-400 mM.

Figure S3. Rheological properties of OSA-starch solution at different concentration (2 wt%-10 wt%) (a) and different pH (2.0-7.0) (b).

Figure S4. Average particle size of oil droplets before simulated in vitro small intestine digestion.
Figure S2
Figure S3

(a) Viscosity (Pa·s) vs. Shear rate (1/s) for different concentrations (2.0 wt%, 3.0 wt%, 4.0 wt%, 5.0 wt%, 7.5 wt%, 10 wt%) and a reference to HIPEs.

(b) Viscosity (Pa·s) vs. Shear rate (1/s) for different pH values (pH 3, pH 4, pH 5, pH 6, pH 7) and a reference to HIPEs.
Figure S4

![Figure S4](image-url)