

Outline of the supplementary material

Tables

Table S1 HPLC conditions of carbohydrates and polyphenols.

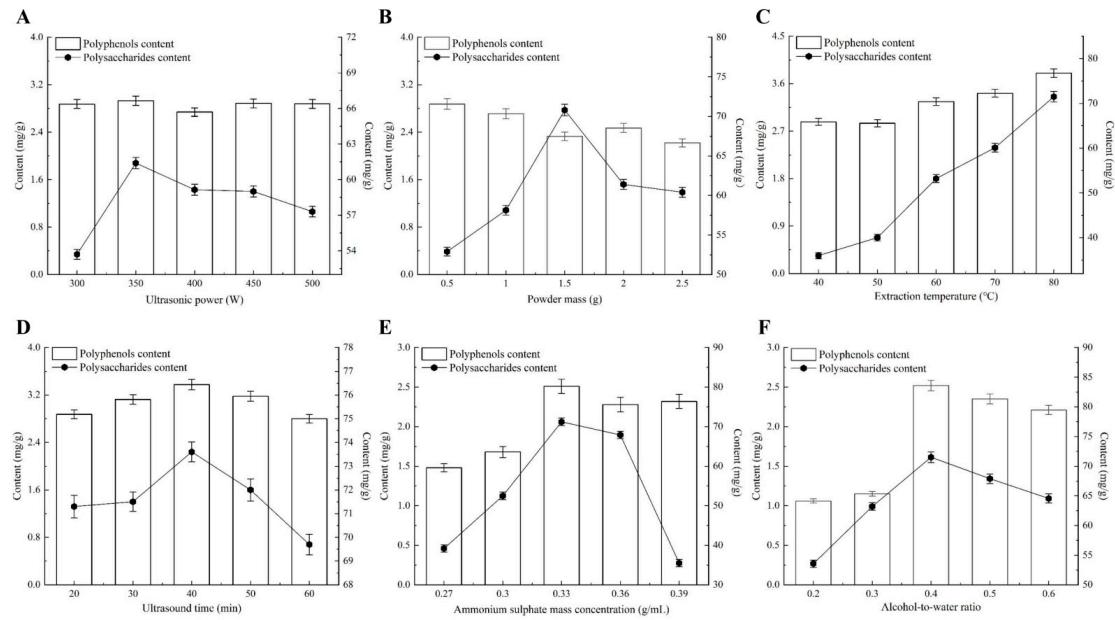
Figures

Fig. S1 Influence of ultrasonic power (A), powder mass (B), extraction temperature (C), ultrasonic time (D), mass concentration of ammonium sulphate (E), and alcohol-to-water ratio (F) on the extraction of carbohydrates and polyphenols from artichoke bud.

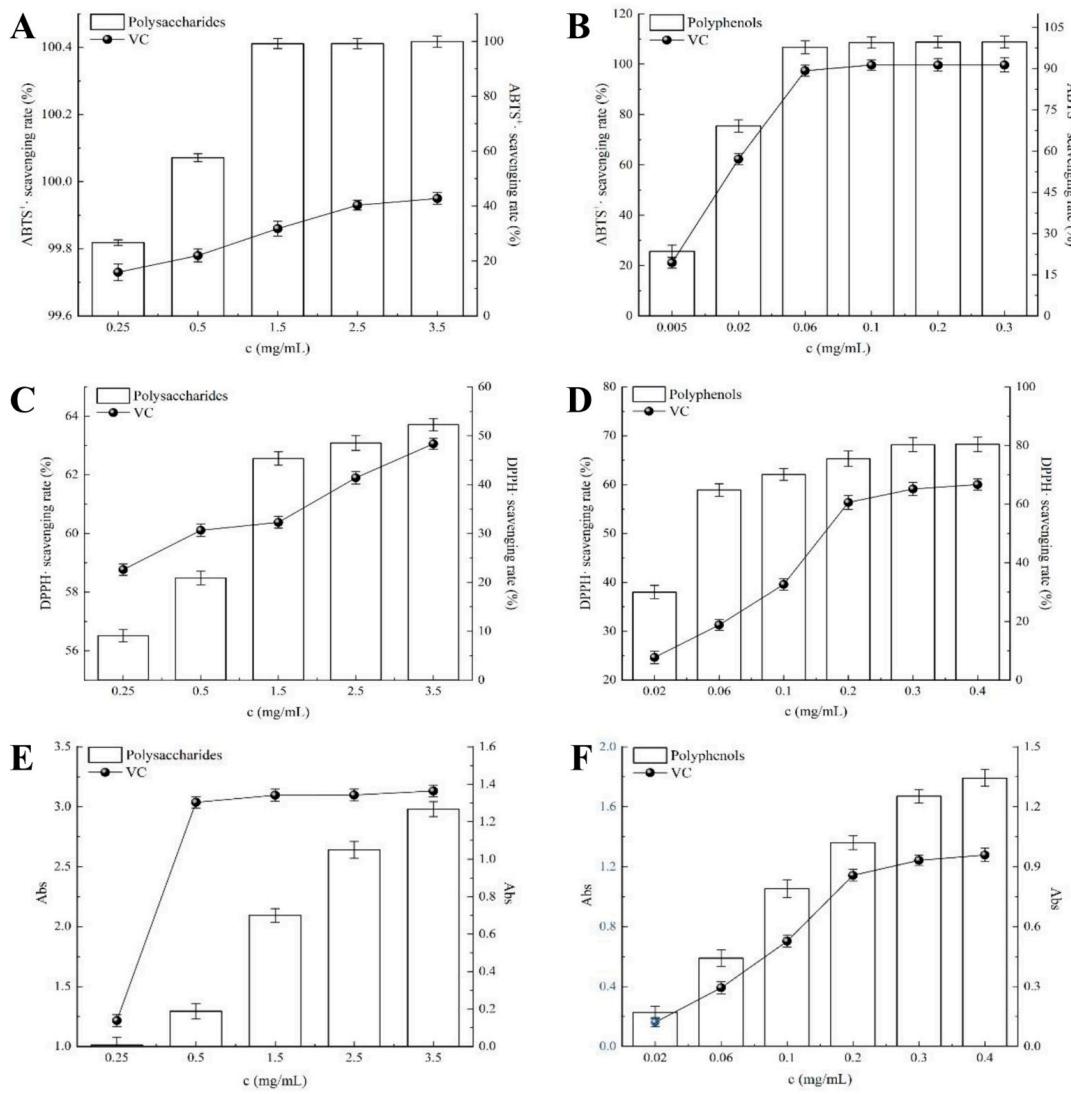
Fig. S2 *In vitro* antioxidant experimental evaluation of carbohydrates and polyphenols.

Supplementary Table S1 HPLC conditions of carbohydrates and polyphenols.

Condition	carbohydrates	Polyphenols
Chromatographic columns	Thermo Scientific™ Hypersil GOLD C ₁₈ (ThermoFisher Scientific, MA, USA) (250 × 4.6 mm ² , 5 µm) A: 15% acetonitrile (<i>v/v</i>) B: 50 mmol/L phosphate buffer (KH ₂ PO ₄ –NaOH, pH = 6.0)	Agilent ZORBAX SB-C ₁₈ (Agilent Technologies, CA, USA) (250 × 4.6 mm ² , 5 µm) A: methanol–acetonitrile (1:1) B: 0.1% phosphoric acid solution
Mobile phase		
Injection volume (µL)	20	10
Temperature (°C)	30	30
Detection wavelength (nm)	250	327
Flow rate (mL/min)	1.0	1.0
Time required for gradient elution	0 → 9 → 35 → 45 → 55 min	0 → 15 → 45 → 60 min
Concentration of gradient elution (mobile phase A)	100% → 92% → 80% → 75% → 100%	15 % → 25 % → 25 % → 30 %



Supplemental Fig. S1 Influence of ultrasonic power (A), powder mass (B), extraction temperature (C), ultrasonic time (D), mass concentration of ammonium sulphate (E), and alcohol-to-water ratio (F) on the extraction of carbohydrates and polyphenols from artichoke bud.



Supplemental Fig. S2 *In vitro* antioxidant experimental evaluation of carbohydrates and polyphenols.