

Supplementary information

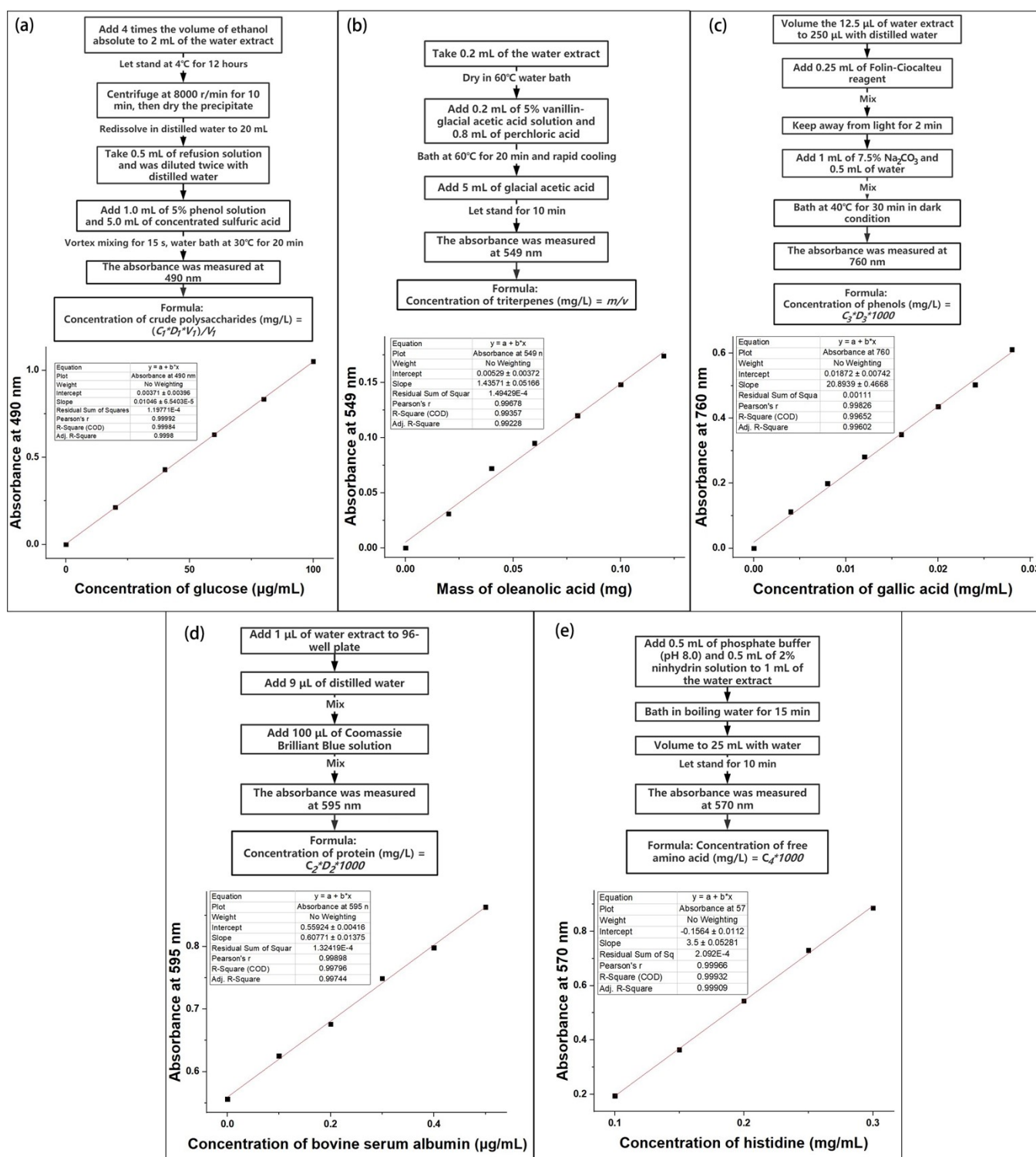


Figure S1 The detection procedures and standard curves of (a) crude polysaccharides, (b) triterpenes, (c) phenols and (d) proteins and (e) free amino acids. (a) Using glucose as the standard to detect crude polysaccharide, in the formula, C_1 is the concentration of the solution to be tested according to the standard curve (mg/L), D_1 is the dilution multiple, V_1 is the volume of the solution to be tested (L) and V_2 is the volume of the precipitation to be redissolved (L); (b) Using oleanolic acid as the standard to detect triterpenes, in the formula, m is the mass of triterpenes in water extract calculated according to the standard curve (mg) and v is the volume of water extract (L); (c) Using gallic acid as the standard to detect phenols, in the formula, C_3 is the concentration of the solution to be tested according to the standard curve (mg/mL), D_3 is the dilution multiple; (d) Using bovine serum albumin as the standard to detect protein, in the formula, C_2 is the concentration of the solution to be tested according to the standard curve (µg/µL), D_2 is the dilution multiple; (e) Using histidine as the standard to detect free amino acid, in the formula, C_4 is the concentration of the solution to be tested according to the standard curve (mg/mL).

Table S1 The primer sequences used in qPCR

Names of gene	Abbreviation	primer sequences (5'- 3')	Amplicon (bp)
Tyrosine Kinase receptor B	TrkB	F: CACGACGAACCTCTTGACTG R: GACAATGCCAGAAGCGAGTTA	146
cAMP-response element binding protein	CREB	F: CTACATAGTGAGATCCCTTA R: ACAGCTACAGGAAGATAG	149
Nuclear factor of kappa light polypeptide gene enhancer in B cells	NFκB	F: GAGTTTGGGAAGGATTTG R: GTTCCAGGTCTGATTC	148
Serotonin receptor 1A	HTR-1A	F: CACTCACCTCTCACAGTATCCA R: TTGCTCCTTACCTCCTCTACG	119
Gamma-aminobutyric acid receptor A	GABAA	F: TGTTCTCAACGCAGTGATTCC R: CCTCTGTCTATCTCCGTCTGA	199
Na ⁺ -K ⁺ -Cl ⁻ cotransporter 1	NKCC1	F: CAACTTTCAGGTGATGAG R: GAAAGCTGGGTAGATATTG	151
K ⁺ -Cl ⁻ cotransporter 2	KCC2	F: CTCTGATATCCCTCTCTT R: TAAGACTCCATCCATACTC	152
Glyceraldehyde-3-phosphate dehydrogenase	GAPDH (reference gene)	F: CAAGCTCATTTCCTGGTATG R: TTATTATGGGGGTCTGGGA	200