Exploring Bioactive Compounds in Brown Seaweeds Using Subcritical Water: A Comprehensive Analysis

Supplementary Data

Table S1. Proximate composition (%) of three brown seaweeds used in this experiment.

Seaweed	Moisture	Ash	Crude Lipid	Crude Protein	Carbohydrate
S. thunbergii	9.75±0.17^{b}	26.02±0.34^{a}	13.64±0.13^{a}	1.01±0.15^{c}	49.58±0.02^{c}
U. pinnatifida	5.33±1.33^{bc}	20.62±0.98^{b}	1.15±0.87^{b}	18.33±0.43^{a}	54.57±0.12^{b}
S. japonica	10.44±0.14^{a}	16.79±0.98^{c}	1.38±0.19^{b}	8.53±0.22^{b}	62.87±0.94^{a}

- Values are expressed as mean ± SD.
- Different letters indicate significant differences (p<0.05) according to Duncan's multiple range test.

Table S2. Pearson's correlation coefficients of MRPs and sugar contents.

Trait	a294	a420	a294/a420	TSC	RSC
a294	1	0.987**	-0.936**	0.451^{ns}	0.761*
a420	-	1	-0.980**	0.580^{ns}	0.841**
a294/a420	-		1	-0.720*	-0.914**

Figure S1. Visual appearance of 3 types of brown seaweeds extracts obtained using subcritical water (a: *S. thunbergii*, b: *U. pinnatifida*, c: *S. japonica*) .

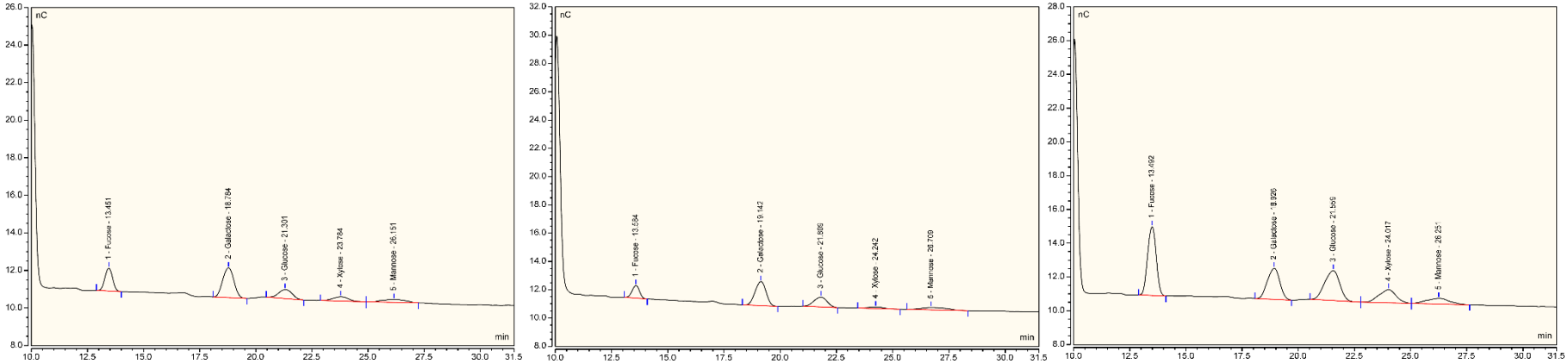

Figure S2. Monosaccharides composition chromatograms of BSEs.

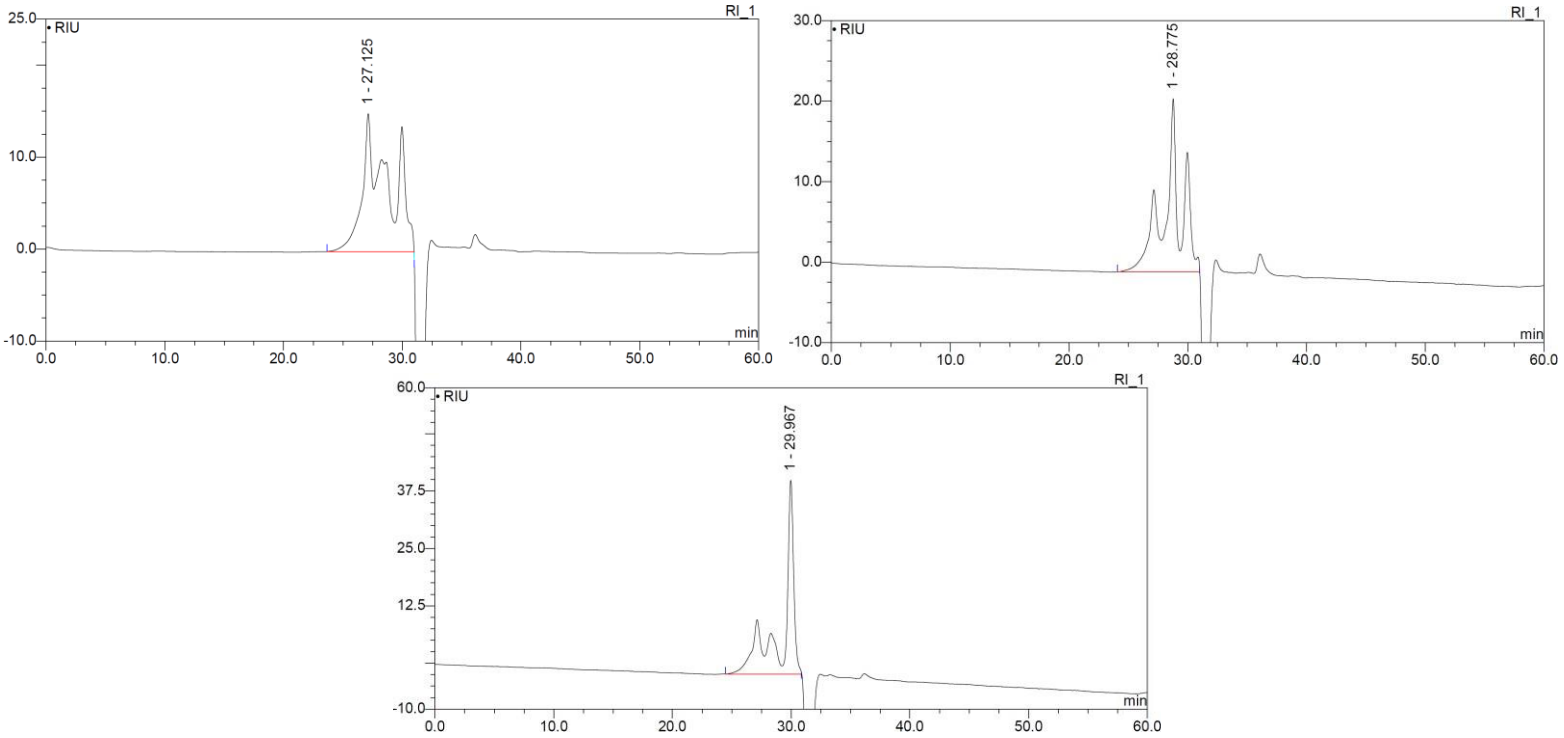

Figure S3. GPC Chromatogram of BSE.