

**Subcritical Water Extraction of *Undaria pinnatifida*: Comparative Study of the
Chemical Properties and Biological Activities across Different Parts**

Supplementary Data

3.5.2. Antihypertensive activity

Supplementary Information: Preparation of Working Solutions and Sample Solutions

Enzyme Working Solution

1. Preparation of Enzyme B Solution:
 - Add 2 mL of deionized water to the Enzyme B vial.
 - Mix thoroughly to dissolve completely.
2. Preparation of Enzyme Working Solution:
 - Add 1.5 mL of the prepared Enzyme B solution to the Enzyme A vial.
 - Mix thoroughly to prepare the Enzyme Working Solution.

Indicator Working Solution

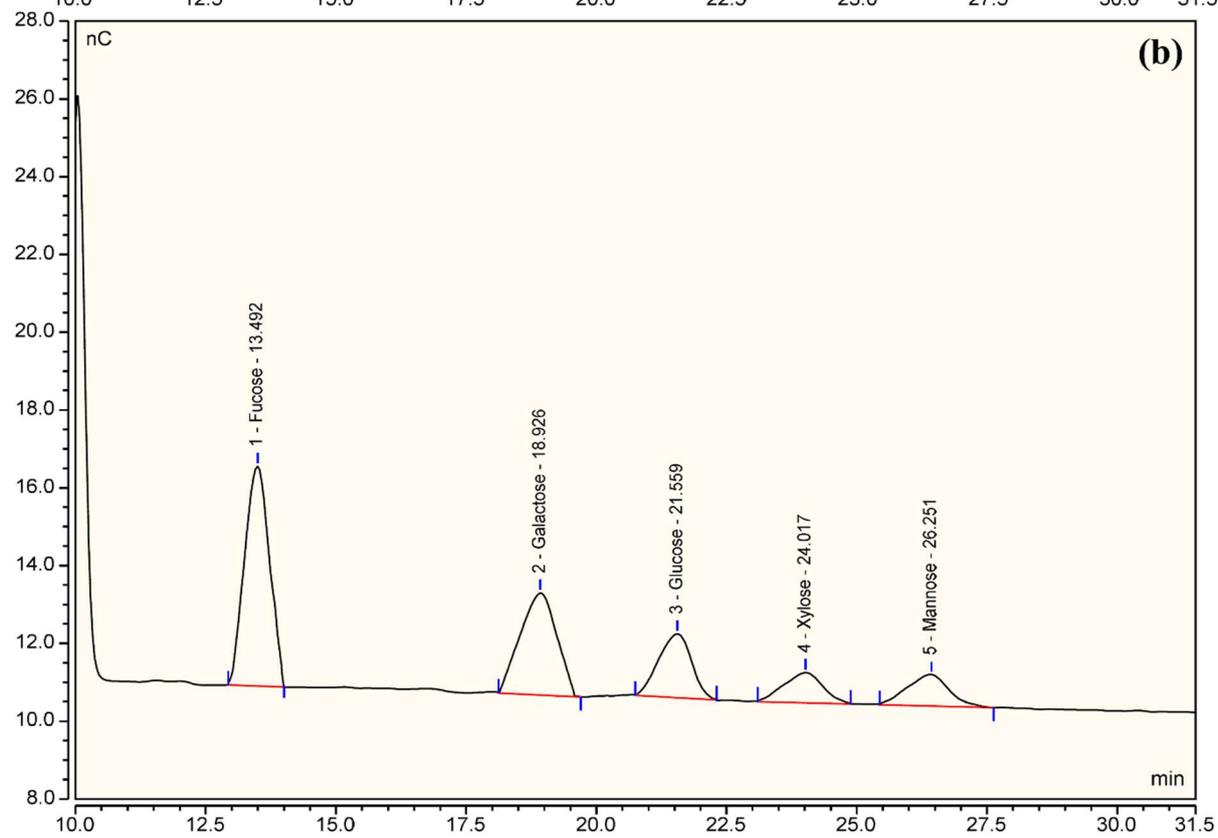
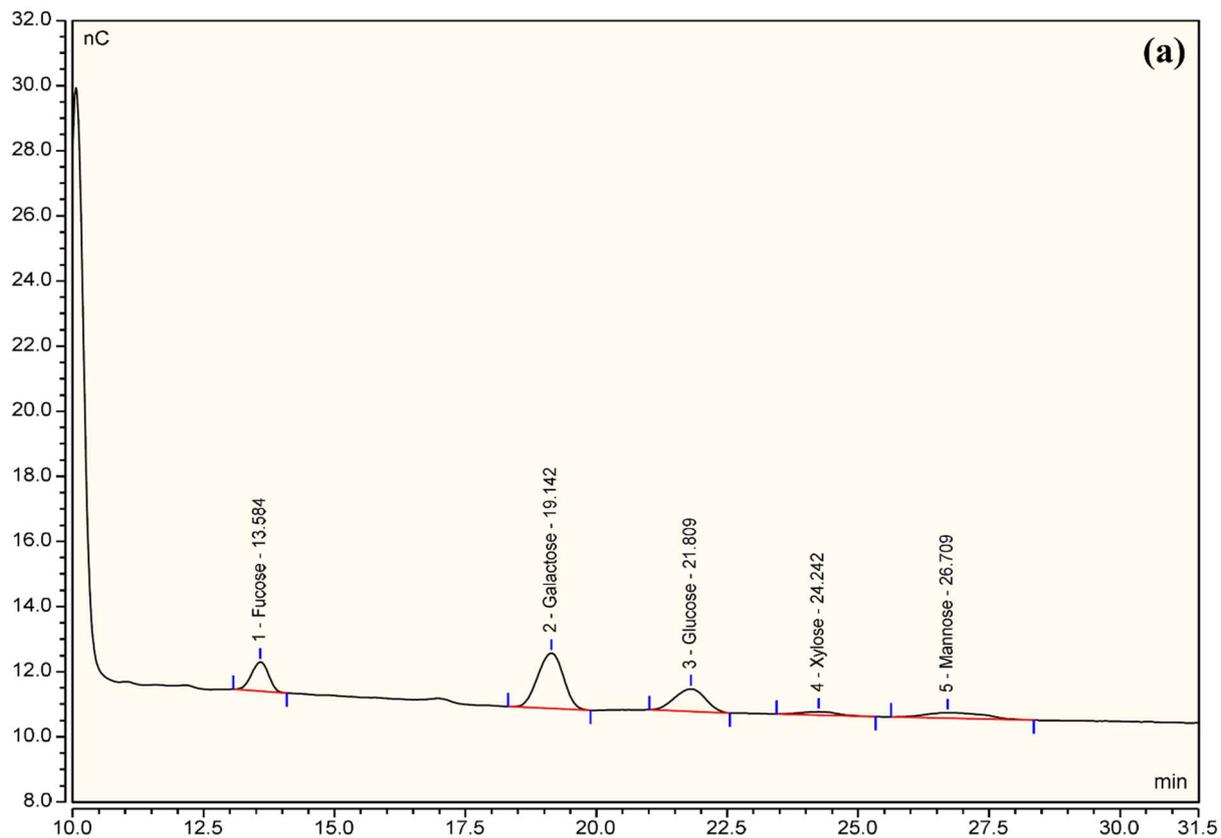
1. Preparation of Enzyme C Solution:
 - Add 3 mL of deionized water to the Enzyme C vial.
 - Mix thoroughly to dissolve completely.
2. Preparation of Coenzyme Solution:
 - Add 3 mL of deionized water to the Coenzyme vial.
 - Mix thoroughly to dissolve completely.
3. Preparation of Indicator Working Solution:
 - Combine 2.8 mL of the Enzyme C solution with 2.8 mL of the Coenzyme solution.
 - Mix thoroughly to prepare the Indicator Working Solution.

Indicator Working Solution

- Dilute the sample solution with deionized water according to the following ratios: 1 (undiluted), 1/5, 1/5², 1/5³, 1/5⁴, 1/5⁵, and 1/5⁶.

Table S1. Addition Sequence & Amount of Each Solution

	Sample	Blank1	Blank2
Sample solution	20 μ L	-	-
Deionized water	-	20 μ L	40 μ L
Substrate buffer	20 μ L	20 μ L	20 μ L
Enzyme working solution	20 μ L	20 μ L	20 μ L
Indicator working solution	20 μ L	200 μ L	200 μ L



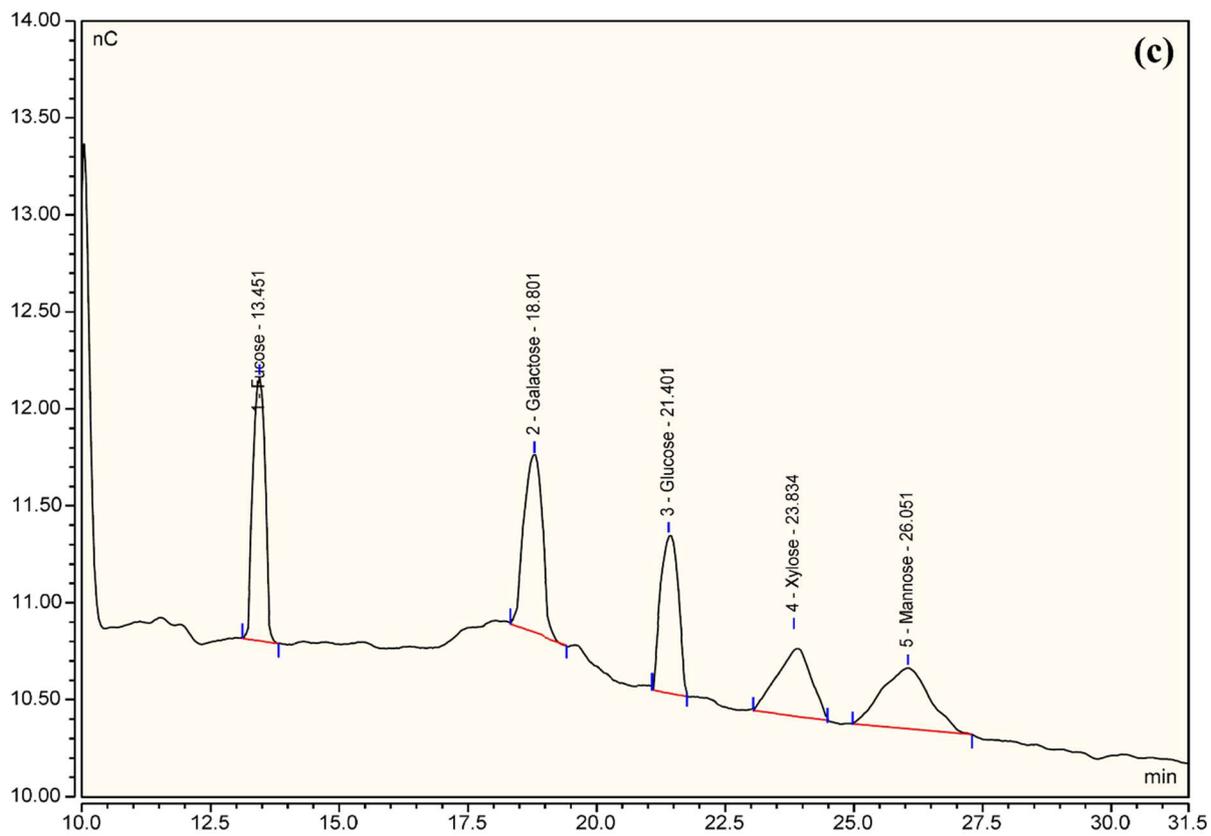


Figure S1. Monosaccharides chromatogram of USEs

(a) USE-B; (b) USE-S; (c) USE-R

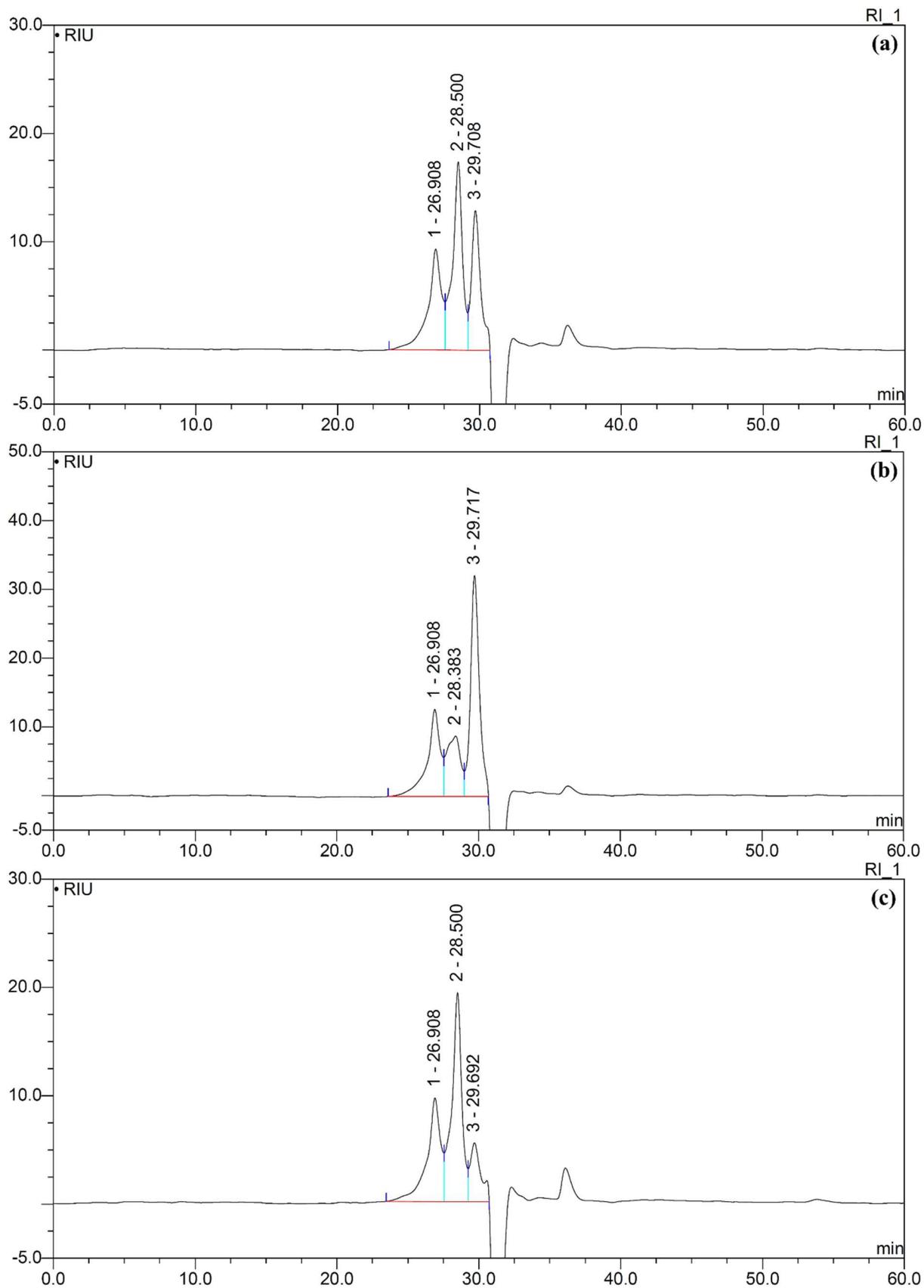


Figure S2. GPC Chromatogram of USEs

(a) USE-B; (b) USE-S; (c) USE-R