

## Supplementary Information

**Table S1.** Biometric measures and dry weight of *Cotylorhiza tuberculata* specimens caught in the summer 2011.

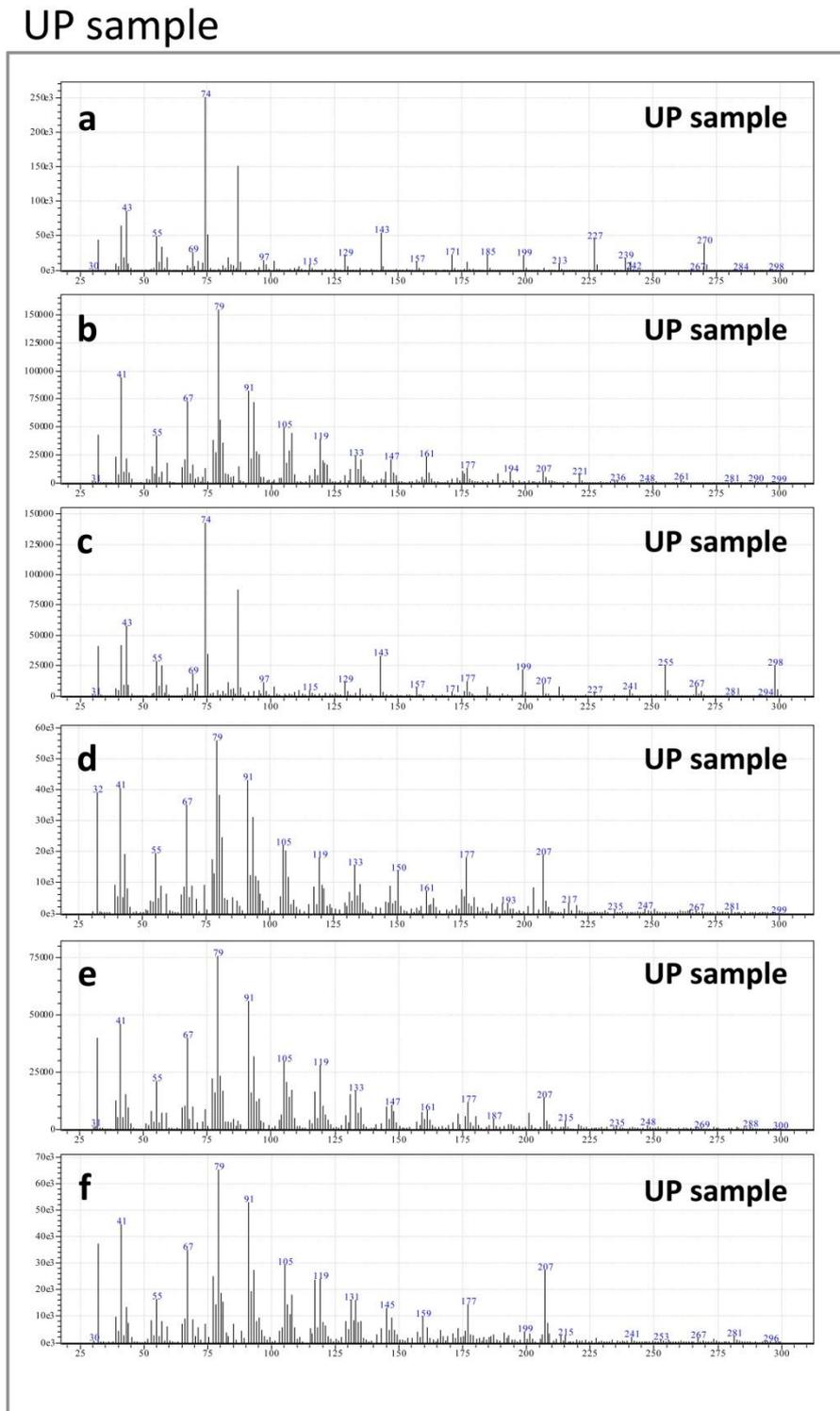
Specimens	Umbrella diameter (cm)	Total fresh weight (g)	Fresh weight/diameter ratio	Dry weight (g)	Dry weight (% of FW)
C-11-002	6.3	19.2	3.05	0.91	4.7
C-11-003	7.4	32.0	4.32	1.91	6.0
C-11-007	7.5	30.3	4.04	1.69	5.6
C-11-005	8.0	39.4	4.93	2.14	5.4
C-11-008	8.3	38.3	4.61	2.10	5.5
C-11-004	9.3	52.5	5.64	2.86	5.5
C-11-006	16.0	428.4	26.78	97.25	22.7
C-11-009	17.5	491.4	28.08	159.21	32.4
C-11-011	18.0	389.5	21.64	40.61	8.3
C-11-001	19.0	489.3	25.75	104.78	26.9
C-11-010	25.5	1080.0	42.35	212.76	19.8
C-11-012	25.5	1179.0	46.24	409.11	34.7
C-11-013	29.0	1770.0	61.04	507.99	28.7

**Table S2.** Fresh and dry weights of *Cotylorhiza tuberculata* specimens and of the lyophilized hydro-alcoholic extract. Data are referred to some representative extractions.

Specimen	Total lyophilized jellyfish (TE)		Lyophilized hydro-alcoholic extract		
	Dry weight	Percentage of fresh weight	Dry weight	Percentage of TE	Percentage of fresh weight
	(g)	(% of FW)	(g)	(% of DW)	(% of FW)
#1	31.91	22.7	13.16	41.3	9.4
#2	65.91	32.4	26.68	40.5	13.1
#3	71.23	26.9	30.79	43.2	11.6
#4	49.04	25.8	24.28	49.5	12.8
Mean $\pm$ SD *		27.0 $\pm$ 4.0	23.72 $\pm$ 7.5	43.6 $\pm$ 4.1	11.7 $\pm$ 1.7

\* Data are means  $\pm$ SD.

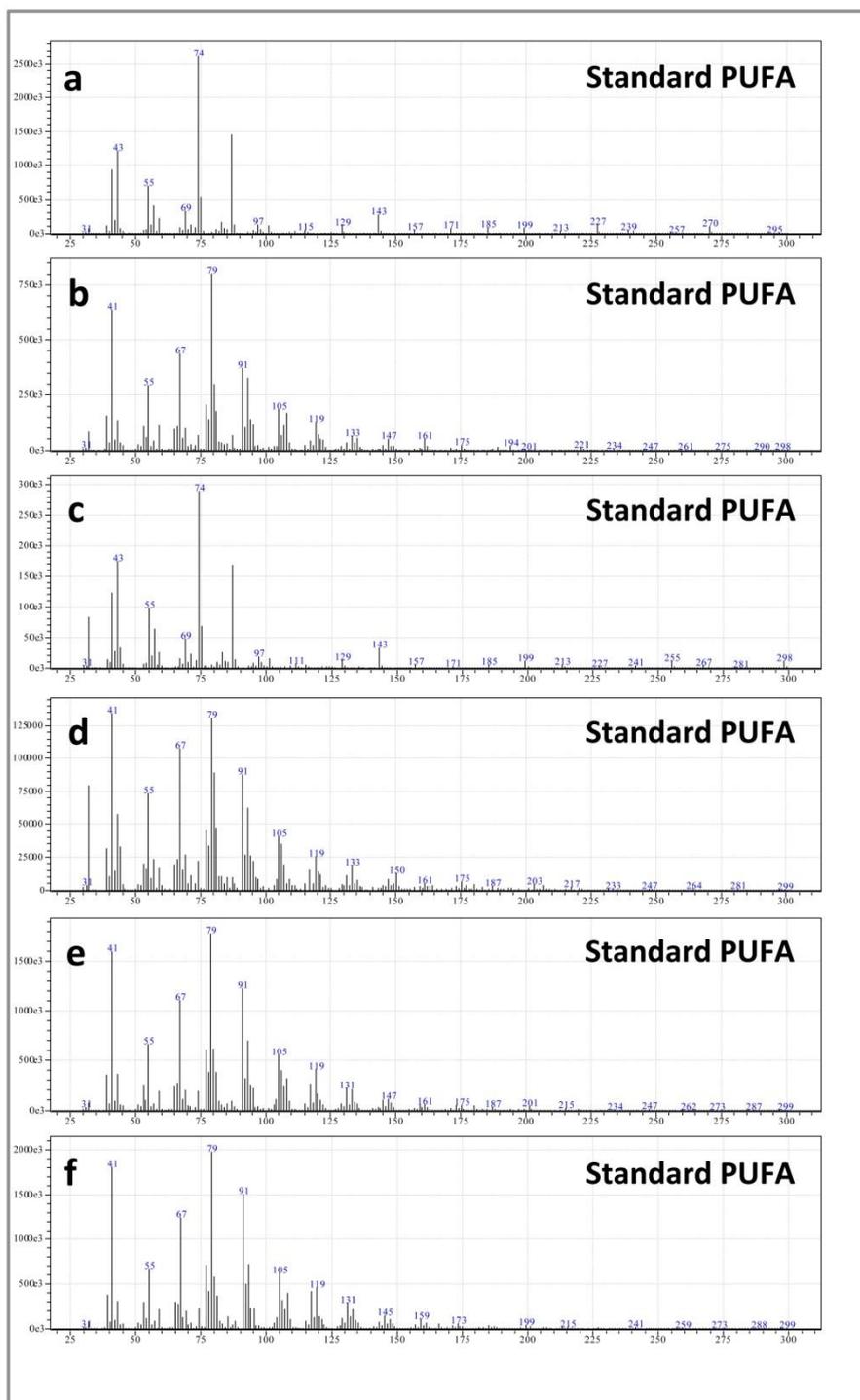
**Figure S1.** Mass spectra fragmentation patterns of the UP sample (A) and the standard PUFA No. 3 (from menhaden oil) (B). The following fatty acids were identified in the UP sample after methyl esterification and comparison with the mass fragmentation spectra of the standards (PUFA No. 3): (a) palmitic acid (C16:0), (b) *cis*-8,11,14,17-eicosatetraenoic acid C20:4 ( $\omega$ -3), (c) Stearic acid (C18:0), (d) *cis*-5,8,11,14-eicosatetraenoic acid C20:4 ( $\omega$ -6), (e) *cis*-5,8,11,14,17-eicosapentaenoic acid C20:5 ( $\omega$ -3), (f) *cis*-4,7,10,13,16,19-docosahexaenoic acid C22:6 ( $\omega$ -3).



(A)

Figure S1. Cont.

Standard PUFA Mix No. 3



(B)