

Supplementary Material

**Table S1.** Percent composition (mg/ 100 mg raw material) of lipids, proteins, and ash extracted from each raw materials using natural deep eutectic solvents Lactic acid:Fructose (Lac:Fru), Lactic acid:Urea (Lac:Ur), and raw materials characterization using conventional extraction methods\*.

		Lac:Fru	Lac:Ur	Raw materials characterization
Codfish bones	Lipids	0.14 ± 0.03	0.18 ± 0.03	2.60 ± 0.95
	Proteins	5.07 ± 0.02	6.70 ± 0.14	38.59 ± 4.17
	Ash	1.87 ± 0.04	2.63 ± 0.27	54.35 ± 0.24
Mussel meat	Lipids	0.82 ± 0.15	1.08 ± 0.03	15.41 ± 2.09
	Proteins	13.99 ± 0.43	18.21 ± 0.36	51.32 ± 2.78
	Ash	0.83 ± 0.25	1.17 ± 0.39	17.57 ± 0.50
Tuna vitreous humor	Lipids	0.52 ± 0.06	0.59 ± 0.14	8.06 ± 1.42
	Proteins	5.16 ± 0.15	7.43 ± 0.25	14.31 ± 1.62
	Ash	3.94 ± 0.22	4.77 ± 0.33	62.26 ± 0.46

\* according to the methods described in section 3.4.