

Table S1. Composition of the macronutrients present in the *Ulva Pertusa* extract

	CARBOHYDRATE	PROTEIN	LIPID	ASH
<i>Ulva Pertusa</i> extract Composition (100 g dry weight)	50%	25%	5%	20%

Table S2. Carbohydrate quali-quantitative composition of *Ulva Pertusa* extract

CARBOHYDRATE	<i>Ulva Pertusa</i> extract Composition (100 g dry weight)
Rhamnose	14.0%
Xylose	6.5%
Glucose	4.0%
Mannose	1.0%
Arabinose	0.5%
Galactose	0.5%
Uronic Acids	23.2%
Sulfate	17.5%
Nitrogen	1.0%

Table S3. Protein quali-quantitative composition of *Ulva Pertusa* extract

Amino acid	<i>Ulva Pertusa</i> extract Composition (g/100 g dry weight)
Aspartic acid	3.10
Serine	1.67
Glutamic acid	2.33
Glycine	1.60
Histidine	0.30
Arginine	1.40
Threonine	1.40

Alanine	2.55
Proline	0.99
Tyrosine	0.66
Valine	1.6
Lysine	1.05
Isoleucine	0.91
Leucine	1.77
Phenylalanine	1.35

Table S4. Lipid quali-quantitative composition of *Ulva Pertusa* extract

LIPID	<i>Ulva Pertusa</i> extract Composition (100 g dry weight)
<i>Saturated</i>	
14:0	2.91%
16:0	22.3%
18:0	0.5%
<i>Unsaturated</i>	
16:1	3.23%
18:1	10.14%
18:2 n - 6	2.11%
18:3 n - 3	12.5%
16:4 n - 3	10.9%
18:4 n - 3	15.51%
20:5 n - 6	1.46%
22:6 n - 3	1.11%