

Article

Kappaphycus alvarezii as a Food Supplement Prevents Diet-Induced Metabolic Syndrome in Rats

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Supplementary Materials:

Supplementary Table S1. *Kappaphycus* amino acid composition

Biomass properties (% dry weight)	Mean	SD
Histidine	0.09	0.01
Serine	0.80	0.01
Arginine	0.83	0.01
Glycine	0.80	0.02
Aspartic acid	1.71	0.03
Glutamic acid	1.80	0.03
Threonine	0.84	0.01
Alanine	0.92	0.01
Proline	0.70	0.01
Lysine	0.61	0.01
Tyrosine	0.20	0.01
Methionine	0.21	0.00
Valine	1.06	0.02
Isoleucine	0.79	0.01
Leucine	1.25	0.03
Phenylalanine	0.82	0.01

Values are mean $\pm$ SD, $n = 2$.

Supplementary Table S2. *Kappaphycus* CHONPS and halogens

Biomass properties (% d.w.)	Mean	SD
Carbon (C)	14.85	4.96
Hydrogen (H)	2.58	0.91
Oxygen (O)	20.00	4.01
Nitrogen (N)	0.31	0.00
Phosphorus (P)	0.03	0.01
Sulfur (S)	3.11	1.01
Chlorine (Cl)	23.43	7.39
Bromine (Br)	0.12	0.01
Fluorine (F)	0.00	0.00
Iodine (I)	< 0.02	-

Values are mean $\pm$ SD, $n = 2$.

Supplementary Table S3. *Kappaphycus* metals and metalloids

Biomass properties (mg/kg)	Mean	SD
Aluminum (Al)	108.00	12.73
Arsenic (As)	4.27	0.11
Boron (B)	118.00	5.66
Barium (Ba)	1.27	0.29
Calcium (Ca)	8,964.00	599.63
Cadmium (Cd)	0.07	0.01
Cobalt (Co)	0.64	0.01
Chromium (Cr)	25.30	8.34
Copper (Cu)	1.90	0.97
Iron (Fe)	424.50	7.78
Mercury (Hg)	0.22	0.08
Potassium (K)	200,003.50	3,457.05
Magnesium (Mg)	5,692.50	208.60
Manganese (Mn)	4.67	0.73
Molybdenum (Mo)	<0.10	-
Sodium (Na)	37,692.50	239.71
Nickel (Ni)	7.84	4.19
Lead (Pb)	0.15	0.03
Selenium (Se)	<1.00	-
Strontium (Sr)	147.50	19.09
Vanadium (V)	4.13	0.26
Zinc (Zn)	4.46	-

Values are mean $\pm$ SD, $n = 2$.