



Revolution Seaweed C.A. cultivates, processes and exports marine red macroalgae grown on a long-line system in Charagato Bay, Cubagua Island (Nueva Esparta, Venezuela). Our raw dried seaweed (RDS) is feedstock for the carrageenan, biofertilizer, bioplastic, cosmetic and industrial-food sectors. Harvest capacity: **20-35 tonnes of dry algae every 45 days.**

PRODUCT & PRESENTATION

Species — primary	Kappaphycus alvarezii
Species — secondary	Eucheumatopsis isiforme
Form	Raw dried seaweed (RDS)
Moisture, as shipped	10 % – 30 %
Foreign matter / impurities	5 % – 15 %
Cultivation	Long-line mariculture

PACKAGING, STORAGE & EXPORT

Wholesale packaging	PE bags 70 × 30 cm
Net weight per bag	20 – 30 kg
Shelf life	24 months
Storage	20 – 30 °C, in shade
HS Code	12122900
Port of shipment	Guamache, Venezuela

LABORATORY ANALYSIS — KAPPAPHYCUS ALVAREZII

Physicochemical characterization by Laboratorios Envirotec, C.A. (2024), sample 24-0394. Proximate and mineral values per 100 g of dry algae.

PROXIMATE COMPOSITION

Energy	195 kcal
Protein	6.30 %
Total carbohydrates	41.68 %
Crude fiber	27.60 %
Total fat	0.32 %
Ash	12.01 %
Moisture (test sample)	12.09 %

MINERALS (MG/100 G)

Potassium	137 mg
Sodium	75.4 mg
Calcium	29.2 mg
Phosphorus	19.2 mg

CONTAMINANTS (MG/KG)

Arsenic (As), total screen	< 0.010
Lead (Pb)	0.010
Copper (Cu)	0.013
Cadmium (Cd), Mercury (Hg)	see CoA

Full contaminant & microbiological panel — inorganic As, Pb, Cd, Hg, aerobic plate count, yeasts/moulds, Salmonella — is issued per lot in the Certificate of Analysis (available on request).

CARRAGEENAN PROFILE

KAPPAPHYCUS ALVAREZII

Primary source of **kappa carrageenan**, valued for firm, thermoreversible gels. Assayed carrageenan content of the current lot is provided in the CoA on request.

Literature reference: soluble fiber ~34 % in milled-algae samples (Rajasulochana et al., 2015).

EUCHEUMATOPSIS ISIFORME

Caribbean-native species yielding a **hybrid kappa-iota-nu carrageenan**. Product assay of this species is issued per lot in the CoA (on request).

Literature reference: native carrageenan 40-57 % of dry weight (Freile-Pelegrin & Robledo, 2006).

INDUSTRIAL APPLICATIONS

- Carrageenans
- Biofertilizers
- Bioplastics
- Cosmetics
- Nutraceuticals
- Industrial food