

SPECIFICATION

Product Name: Calcified Seaweed Powder
Chemical Formula: (Ca, Mg)CO ₃
CAS Number: N/A
Molecular Weight: N/A
Appearance: Off white powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Calcium (Assay + Identification)	%	39.75	Min. 32.0
Magnesium (Assay + Identification)	%	3.79	Min. 2.2
Carbonates (identification)	-	Complies	To comply with the test
Ash	%	99.30	Min. 90
Iron	%	<0.1	Max. 0.1
Heavy metals (as pb)	PPM	<10.0	Max. 10.0
Arsenic	PPM	<1.0	Max. 1.0
Lead	PPM	<3.0	Max. 3.0
Cadmium	PPM	<0.5	Max. 0.5
Mercury	PPM	<0.1	Max. 0.1
pH (1%)	-	9.84	8.5 – 10.5
Loss on drying	%	0.30	Max. 4.0

Microbiological Analysis			
Total plate count	cfu/g	Complies	10000
Total yeast & mould count	cfu/g	Complies	100
Bile- tolerant gram negative bact	cfu/g	Complies	100
E. coli	Absent/10g	Complies	Absent/10g
Salmonella	Absent/25g	Complies	Absent/25g
Staphylococcus aureus	Absent/g	Complies	Absent/g
Physical Analysis			
Particle size/ Sieve analysis	%	100.0	100.0% passing through 60# BSS (250 μ m)
		4.5	Max. 5.0% retained on 100# BSS (150 μ m)
		18.1	Max. 20.0% retained on 200# BSS (75 μ m)

Physical Properties

- Solubility: Insoluble in water. Soluble in dilute hydrochloric acid. Insoluble in ethanol. Insoluble in oils.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, direct sunlight, and contamination. Keep the container tightly closed in the original, properly labeled packaging to prevent moisture absorption and caking. Store away from strong acids and incompatible materials to maintain product quality, mineral content, and stability.

Applications

- Use: Widely used as a natural source of calcium, magnesium, and trace minerals in food, nutraceutical, pharmaceutical, and animal feed formulations. It supports bone and teeth health, normal muscle function, nerve transmission, and overall mineral balance. It is commonly

incorporated into calcium supplements, tablets, capsules, powders, sachets, functional foods, fortified beverages, dairy products, and dietary supplements.

- Dosage: Depends on the intended application, mineral content, patient age, and nutritional requirements.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.