

MARINE EXTRACT LTD., MARINE EXTRACT S.A.S

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Chitosan Specification Sheet

Quality Parameters	Target Specification	Actual
Appearance	White to Off White	White
Granularity	Large Flake	Large Flake
Moisture Content	<10%	2.56±0.17
Ash Content	<1%	0.10±0.13
Total Nitrogen Content	Not Specified	5.0%
*Residual Protein Content	<0.2%	Not detected
Insoluble Matter	<1%	0.8%
Degree of Deacetylation	1 st Deacetylation >85%	92%
	2 nd Deacetylation >95%	100%
Lead	<10 ppm	0.06
Arsenic	<0.5 ppm	<0.2 ppm
Standard Aerobic Plate Count	<1000 cfu/g	< 5 cfu/g
Yeast and Mold	<40 cfu/g	15 cfu/g
Viscosity	Not Specified	1634 cP

Chain of Custody and Traceability

Ecuador is the world's leading fully integrated shrimp producer. In 2023 Ecuador exported approximately 1,2 million metric tons of shrimp, the largest export volume for any shrimp producer in the world.

Ecuador bordering the Pacific Ocean where the farms are replenished twice daily by the Pacific Oceans salt water natural tides.

The shrimp and tilapia are raised in fresh clean waters and are feed on a plant-based diet and free of hormones and antibiotics.

Ecuador shrimp farms have laboratories for the larvae production, feed plant, and processing plants. Without any outside interruptions in the chain of custody of its products from inception, making its products 100% traceable.

All Ecuador shrimp farm practices and products are internationally certified.

Certificates

The quality of Ecuador processes and products complies with the standards of national authorities (INP) and international standards of several countries and continents (EU, USFDA, China, Korea, Russia, etc.). Ecuador also has quality certifications from world-renowned entities.

Please see below some certifications:

