

- Food
- Food Additive
- Cosmetic
- Quasi-drug



Hokkaido Wakkanai Atka Mackerel · Cod · Walleye Pollack

『Hyaluronic Acid』

Technical
Data

Hyaluronic Acid Made of Seafood



Research and development in collaboration between industry, academia and government invented the unique technology that can extract hyaluronic acid from the unused portion of fish. It is a fine powder with less fishy odor.

Hyaluronic acid is a key ingredient of supplement for beauty and joints, and there are only few materials that are extracted by bacterial culture or extracted from cockcombs. However, there are issues among those ingredients such as bird flu, antibiotics contained in chicken feed and genetically modified bacterial culture. This is an ingredient extracted from natural atka mackerel, cod and walleye pollack that is eaten by many Japanese from Hokkaido, so people feel secure with the ingredient.

Expected Function

- ◎ Improving moisture retention of skin
- ◎ Beautiful skin effect
- ◎ For material of lubricating liquid between cartilages
- ◎ Preventing cataract

Recommended Dosage

- ◎ As this ingredient : 300~1,000mg/day (Custom)
- ◎ As Hyaluronic Acid : Less than 240mg/day (Japan Health and Nutrition Food Association)

Uses

- ◎ Supplements, drinks and processed foods for beauty
- ◎ Supplements, drinks and processed foods for joints

Production Process



Display Name Example

- ◎ Hyaluronic acid, Hyaluronic acid-containing glycoprotein complex

Quality Standard Composition

Material	Atka Mackerel, Cod, Walleye pollack
Property	White to light yellow powder with its original scent
Mucopolysaccharide	Over 40%
Moisture	Less than 10%
pH (1% water solution)	5.0~7.0
Heavy metal (Pb)	Less than 10ppm
Viable count of bacteria	Less than 3000 pcs/g
Coliform bacteria	Negative
Crystal size	30 mesh pass
Composition	Fish extract 100%

Chemical Analysis Value (/100g)

Energy	335.0	kcal
Protein	29.3	g
Fat	0.0	g
Carbohydrate	54.6	g
Sodium	860.0	mg
Mucopolysaccharide (incl hyaluronic acid)	48.4(5.6)	g

*Numbers are just an analysis example.
It does not guarantee the content of the product.

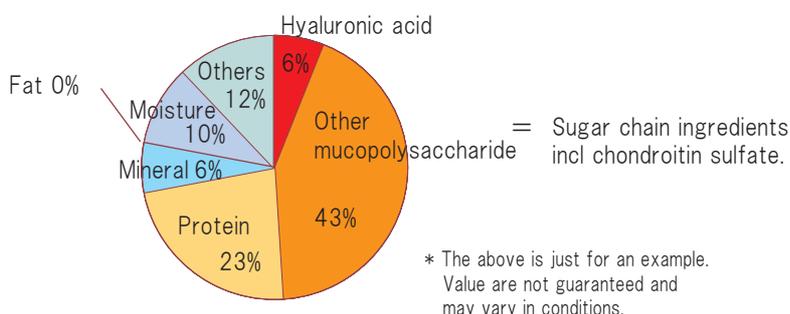
Other

Quantity	1kg
Shelf life	3 years from the production date
Storage condition	Keep in cool dry place, and avoid direct sunlight.

Company Information

■ Other ingredients beside hyaluronic acid

Constitution of Marine Hyaluronic Acid MHA-5 (wt%)



Marine Hyaluronic Acid MHA-5 contains plenty of hyaluronic acid from natural fish and the other sugar chain ingredients including chondroitin sulfate. 50% of its ingredients are sugar chain ingredients.

■ Secure image with Marine hyaluronic acid

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Origin	Cockcomb	Bacterial culture	Natural fish
Price	Low		High
Image	<ul style="list-style-type: none"> · Antibiotics · Avian influenza 	<ul style="list-style-type: none"> · Gene modify 	<ul style="list-style-type: none"> · Secure image

■ Constitution of amino acid

Amino acid	wt%
Aspartic acid	6.30
Threonine	14.47
Serine	6.82
Glutamic acid	8.87
Glycine	8.75
Alanine	4.76
Valine	4.05
Cystine	0.77
Methionine	1.67
Isoleucine	3.47
Leucine	3.47
Tyrosine	1.09
Phenylalanine	2.32
Tryptophan	0.51
Lysine	12.99
Histidine	2.57
Arginine	8.62
Proline	6.88
Hydroxyproline	1.29

* The above is just for an example. Value are not guaranteed and may vary in conditions.

■ Within a 100-meter radius of traceability

After natural fishes are unloaded at Wakkanai fish harbor, the fishes are sold at the fish market in front of the harbor. Then they are taking into a fish processing facility just 200 meters away from the market. At the facility, fishes are transported as food and the other parts of the fish are sent to the factory right next to extract hyaluronic acid. Because whole process are done by such a small area, the traceability of the product is securely kept.



Company Information

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