

A BRAND NEW DIETARY SUPPLEMENT FOR PETS
RICH IN MARINE ASTAXANTHIN AND OMEGA-3S



QRILL™ PET
ASTA OMEGA Plus

Pure Astaxanthin / Marine Omega-3s / All Natural / Sourced from Krill

The new dietary supplement for pets

Pet owners are increasingly aware of the nutritional needs of their pets and are on the look out for natural, do it all, sustainable supplements. QRILL™ Pet ASTA OMEGA Plus offers a natural combination of omega-3s and the powerful antioxidant astaxanthin, both derived from one unique source. Not only do pets get to enjoy the health benefits of these components, but pet owners can rest assured that their pets are benefitting from a sustainable and natural supplement.

What does the product offer?

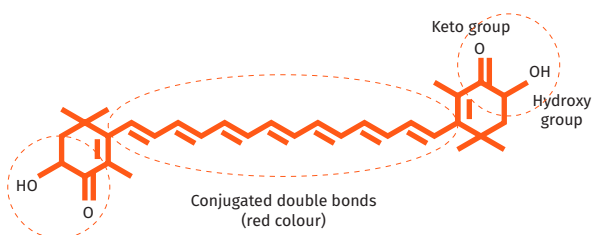
QRILL™ Pet ASTA OMEGA Plus Oil is an all natural supplement sourced from Antarctic krill (*Euphasia Superba*), rich in the best nutrients nature has to offer. A part from the fat fraction of krill provides this powerful dark red oil which offers pets a compelling combination of the antioxidant astaxanthin and marine omega-3s, EPA and DHA. The unique advantage of ASTA OMEGA Plus is that all its nutrients come from a single source, free from preservatives or additives.

Astaxanthin – a powerful antioxidant

Astaxanthin is a powerful antioxidant known to protect the body's cells and boost the immune system. Antioxidants are essential for optimal health of pets, cognition and longevity by preventing oxidative stress and having anti-inflammatory capacity. The astaxanthin found in ASTA OMEGA Plus Oil is natural and both sustainable and traceable. Derived from our krill steaming process on board the vessels, it is a very sustainable bi-product with a short production cycle.

Natural astaxanthin is more than 95% esterified and it is shown to be well absorbed by dogs.

Astaxanthin & its chemical structure



Astaxanthin contains a unique molecular structure due to the presence of double bonds in the centre, and a hydroxyl and keto group on each end. These are responsible for its antioxidant properties.

Marine omega-3s

» Omega-3s are shown to provide numerous health benefits.

Pets are not able to develop enough essential omega-3 fatty acids in their bodies naturally and require supplements for a long and healthy life. Numerous clinical studies have proven the health benefits of marine long chain omega-3 fatty acids EPA and DHA. They are vital components in every cell membrane supporting cell survival, renewal, producing anti-inflammatory signaling molecules, affecting gene expression and other critical functions. EPA and DHA positively affect several organs, including the heart, kidney, liver, joints, brain, eyes and skin, and are beneficial to maintain a healthy coat.

Keeping the right balance



Omega-6

5-6 : 1
Desired ratio



Omega-3

1. Hall JA, Wander RC, Gradin JL, Du SH, Jewell DE Effect of dietary n-6-to-n-3 fatty acid ratio on complete blood and total white blood cell counts, and T-cell subpopulations in aged dogs. Am J Vet Res. 1999 Mar;60(3):319-27.

2. Giacomo Biagi, Attilio Mordenti, Massimo Cocchi The role of dietary omega-3 and omega-6 essential fatty acids in the nutrition of dogs and cats: A review. PROGRESS IN NUTRITION VOL.6,N.2,000-000, 2004

» Omega-3s have anti-inflammatory properties and are critical to balance omega-6 rich pet diets.

Many pet diets contain excessive amounts of omega-6 fatty acids. Current research indicates that a balanced ratio of omega-6 to omega-3 fatty acids of 5-6:1 is most beneficial for pets. Too many omega-6 fatty acids promote inflammation and may worsen inflammation-related conditions like allergy and atopy, osteoarthritis, cognitive dysfunction, obesity, gastrointestinal disorders and many more. Achieving the right fatty acid balance is therefore important for maintaining good health. Many pet foods contain plant-based omega-3s, however pets are not able to convert plant-based omega-3s to EPA and DHA well and therefore most health care providers recommend a marine sourced omega-3 supplement.

Why ASTA OMEGA Plus Oil?

QRILL™ Pet ASTA OMEGA Plus is a natural supplement of omega-3s and astaxanthin combining an anti-inflammatory with an antioxidant component. The first pilot study on active Alaskan Huskies has shown promising results. 10 dogs received a supplementation with ASTA OMEGA Plus Oil, while the other 10 dogs in the control group received flaxseed oil. All dogs that received ASTA OMEGA Plus had a significant increase in astaxanthin levels in their plasma, as well as an increase in omega-3 levels in red blood cells. There was no increase in the flaxseed group, which supports earlier findings that plant-based alpha-linolenic acid converts poorly into EPA and DHA. Marine omega-3s have shown to be a more efficient source of the omega-3 fatty acids EPA and DHA.

Recommended Application

The results of the pilot study indicate that astaxanthin and omega-3 levels can be significantly increased by the supplementation of ASTA OMEGA Plus Oil, which makes it an attractive feed supplement. ASTA OMEGA Plus Oil can be sold as a stand-alone supplement for pets or used as an ingredient in pet food or treat formulations.

Pure, sustainable and traceable

ASTA OMEGA Plus is a clean, sustainable and traceable supplement for pets. Antarctic krill are so low in the marine food chain and live in the pristine waters of the Southern Ocean, that they are naturally low in accumulated contaminants. The Antarctic krill fishery is one of the most precautionary and best performing fisheries in the world. Not only is the krill fishery strictly regulated, it is also the only “A” rated reduction fishery in the world.



Aker BioMarine developed the patented technology ECO Harvesting that allows for effective commercial harvesting while protecting the environment by virtually eliminating by-catches. Aker BioMarine controls the whole supply-chain of all products and is therefore proud of providing a fully transparent and traceable operation.

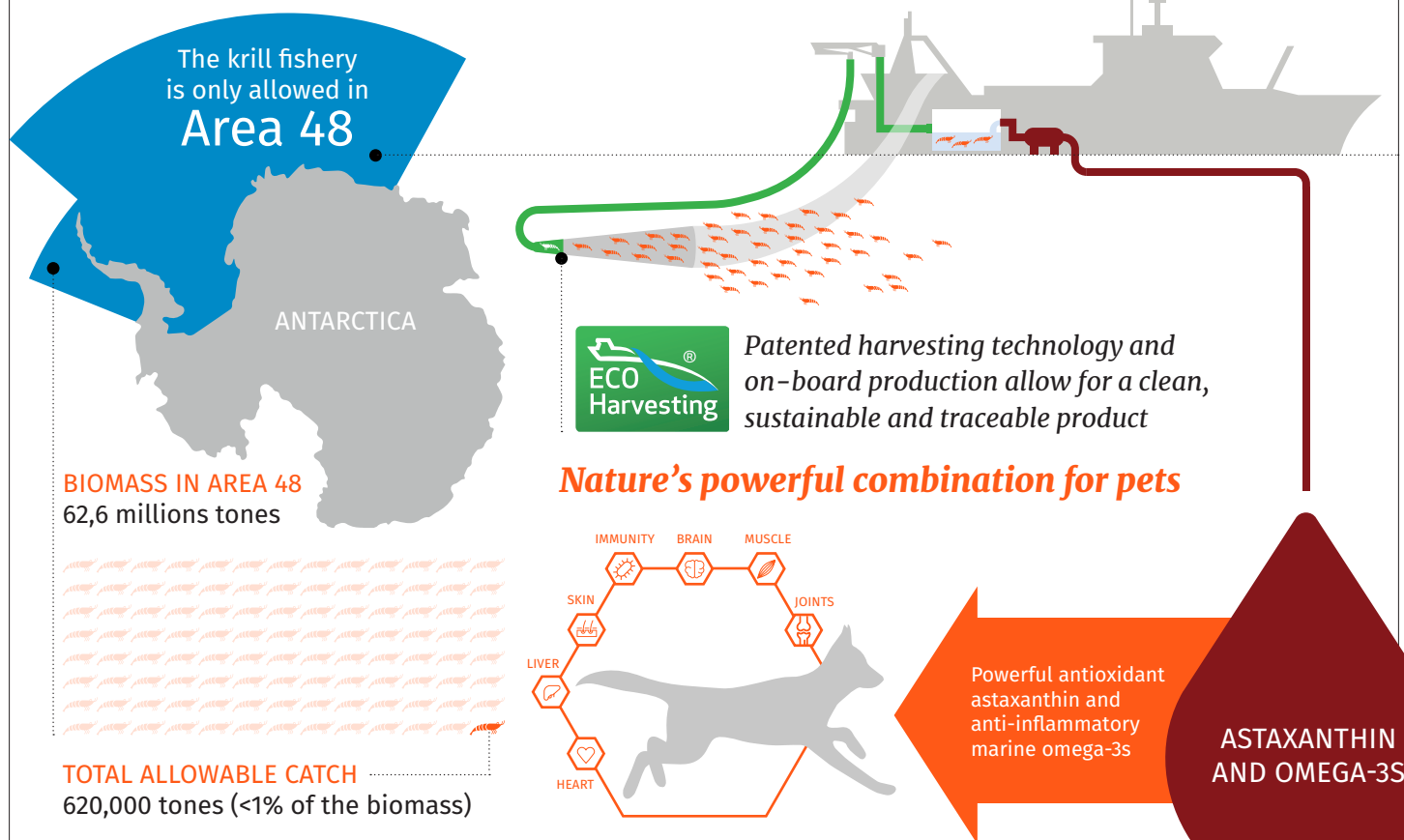


Aker BioMarine was the first krill harvesting company to get MSC certification due to the high standard fishing operations and sustainable practices.

Read more about our environmental commitments:

qrillpet.com/krill-is-sustainable

Discover the story of QRILL™ Pet ASTA OMEGA Plus



PRODUCT DATA SHEET

QRILL™ Pet ASTA OMEGA Plus from Antarctic Krill (*Euphasia Superba*)

Key nutrient composition

	Typical value	Unit
Neutral lipids (triglycerides)	100	%
Total saturated	37.5 ± 2	%
Total monounsaturated	32 ± 2	%
Total polyunsaturated	18 ± 5	%
Total omega-6 fatty acids	1.8 ± 0.5	%
Total omega-3 fatty acids	≥ 8	%
EPA	≥ 4	%
DHA	≥ 1	%
Astaxanthin esters	≥ 800	mg/kg
Proteins	0	%
Carbohydrates	0	%

Product characteristics

	Typical value	Unit
Viscosity	50-60	mPa s
Density	0.93	g/cm ³
Water activity	< 0.7	–
Water content	< 0.5	%

Description

Clear and dark red coloured oil. Antarctic Krill (*Euphausia Superba*) contains high levels of natural Astaxanthin and omega-3 fatty acids EPA and DHA.

Application

For adult dogs as an omega-3 and antioxidant pet food enrichment or as a stand-alone supplement. Astaxanthin also acts as a highly effective antioxidant to protect the oil from oxidation.

Packaging

25kg drums

185kg drums

Handling and storage

Store at room temperature below 25C.

Do not freeze.

Two years shelf life from date of manufacture.

Producer and registration

Producer: Aker BioMarine Antarctic AS

Country of origin: Norway

Harvesting system: Aker Eco-harvesting™ Pelagic Trawl

