

A performance
supplement
for pets



Phospholipid
Omega-3s



Astaxanthin



Choline



Typical Composition*



* Nutrient table shows a typical composition. Since Antarctic Phospholipid Oil is a natural product it will vary with season. For guaranteed nutrient levels, please contact your sales person for relevant product specifications and accompanied COA's.

Typical level of key nutrients	Antarctic Phospholipid Oil	UNITS
Lipids	>95	%
Total omega-3 fatty acids	25	%
EPA	15	%
DHA	6	%
Total omega-6 fatty acids	2	%
Omega-6/Omega-3 ratio	0.06	%
Choline	4	%
Astaxanthin esters	250	mg/kg
Carbohydrates	0	%
Proteins	0	%

Typical lipid and fatty acid composition

Polar lipids (Phospholipids)	35	%
Neutral lipids (Triglycerides)	55	%
Free fatty acids	<10	%
Total saturated	20	%
Total monounsaturated	27	%
Total polyunsaturated	25	%

Typical mineral composition

P	1.9	%
I	0.4	ppm

Typical vitamin level:

A	4.4	mg/100g
D	< 0.25	ug/100g
E	58	mg/100g

Physical parameters

Density	0.95	g/cm ³
Viscosity at 35°C	400	mPa s
Water activity	< 0.7	-
Water content	1	%

Inorganic arsenic	< 0.1	ppm
Arsen and organic arsenic species	4.2	ppm
Cd	< 0.01	ppm
Hg	< 0.01	ppm
Pb	0.05	ppm
Sum of dioxins (WHO-PCDD/F TEQ)	0.32	ppb

Freshness

Astaxanthin esters	250	ppm
PV	< 5	mEq/kg

Suggested daily dose of EPA/DHA for pets

Kg BW of adult dog	NRC* Rec mg EPA/DHA per kg bw(0.75)	AKBM recommendation healthy dogs	Idiopathic hyperlipidemia, mg EPA/DHA***	Atopy or IBD mg EPA/DHA***	Osteoarthritis mg EPA/DHA***	Safe upper limit EPA/DHA per 1000 kcal, NRC 2006*
1	22.5	50	120	125	310	275
5	100	200	401	417	1036	1237
10	168	300	675	703	1743	2080
15	228	375	914	953	2363	2820
20	283	450	1134	1182	2932	3499
25	335	550	1342	1398	3466	4137
30	384	700	1538	1602	3974	4743
35	431	850	1727	1799	4461	5324
40	477	1000	1909	1988	4931	5885

*National Research Council. Nutrient requirements and dietary nutrient concentrations. Nutrient Requirements of Dogs and Cats. Washington, DC: The National Academies Press, 2006, pp 354-370.

**Based on NRC energy recommendation calculation for healthy active adult dogs

***Bauer, 2011

Description

Qrill Pet Antarctic Phospholipid Oil is a is an all natural specialty performance supplement made from Antarctica krill (*Euphausia superba*). Seasonal differences make the product vary in term of composition levels. The oil is red and homogeneously colored.

Nutrition and health benefits

Qrill Pet Antarctic Phospholipid Oil contains easily utilized marine phospholipid omega-3 (EPA & DHA) the vital carotenoid astaxanthin and choline. QRILL Pet is a superior source of omega-3s, because its key fatty acids EPA and DHA are mainly bound to phospholipids. In other sources like fish oil, the omega-3s are delivered in triglyceride form. These two chemical forms make a difference. Omega-3s from triglyceride (TG) must first be re-built into phospholipids (PL) before they can be incorporated into cell membranes. It has been shown that omega-3 in TG form are more easily degraded and used as energy source than omega-3 in PL form. Hence, vital omega-3s from TGs will be lost before reaching the cell membrane. Omega-3 PLs, due to their chemical composition, are less available as energy and more efficiently incorporated into cell membranes where they can positively influence health.*

Omega-3, choline and astaxanthin all contribute to the health of pets. They are important for joints, brain, heart and liver and maintain a healthy skin and shiny coat. They also affect the whole immune system and overall mental focus and well-being.

Application

For pets as a omega-3 pet food enrichment or as a stand-alone supplement.

Package size

200kg drum, 25kg drum

Shelf life

Initially 2 years from manufacturing date. After 2 years, if still in Aker BioMarine stock, the batch is re-analyzed to evaluate and set the final shelf life of the product.

Producer and registration

Producer: Aker BioMarine Antarctic AS

Country of origin: USA

Harvesting system: Aker Eco-Harvesting™

Norwegian krill harvesting licenses

CCAMLAR - www.ccamlr.org

Certifications: ISO, FEMAS, MSC

QRILL Pet is a brand of Aker BioMarine, a leading biotechnology company developing and supplying krill-derived products for consumer health and animal nutrition. When developing our functional marine ingredients for pets, we kept our focus on the needs of pets and pet food formulators. Aimed at keeping pets healthy, QRILL Pet products are rich in long-chain omega-3 fatty acids. The unique distinction of krill omega-3s is that they are mainly bound to phospholipids.

AKER BIOMARINE

Aker BioMarine is a leading biotechnology company developing and supplying krill-derived products for consumer health and animal nutrition. Dedicated to improving human and planetary health, the company has a strong position in the industry. Our krill-based ingredients come from a 100% traceable and sustainable supply chain.

QRILL Pet products come from one of the most sustainable fisheries in the world.

