



# One Ingredient, Many Benefits



SUPERIOR PHOSPHOLIPID OMEGA-3



**Powerful**  
Astaxanthin



**Natural**  
Choline



**Tasty**  
Marine Proteins



## A unique marine ingredient for pet food

While the demand for pet food with omega-3s is on the rise, not all omega-3 ingredients may meet the right requirements and have also an inspiring story. QRILL Pet allows you to enhance your formulation with superior omega-3 phospholipids, powerful astaxanthin, natural choline and tasty marine proteins. At the same time, QRILL Pet is one of the most sustainable marine ingredients in the world.

### This is QRILL Pet

QRILL Pet is a 100% natural product, made only from whole dried Euphausia Superba, an Antarctic krill species rich in the long chain omega-3s EPA (eicosapentaenoic acid) and DHA (docosahexaenoic acid), the powerful antioxidant astaxanthin, natural choline, and palatable marine proteins.

Recognized for its health-promoting suppression of free radicals, astaxanthin can have positive effect on e.g. the pets immune system. It also keeps QRILL Pet fresh, protecting the omega-3 fatty acids from oxidation. So there's no need for other preservatives to be added to the raw material for ensuring its shelf life during storage.

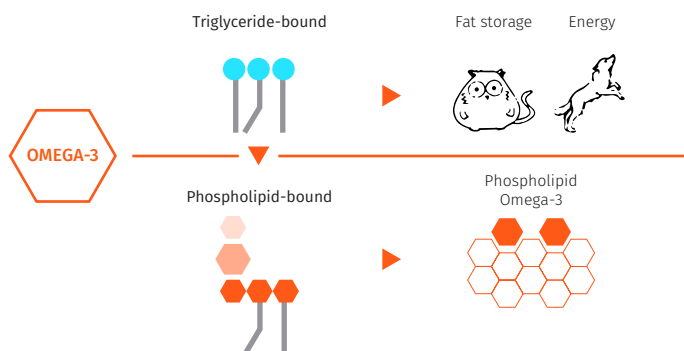
### The phospholipid advantage

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.\*

#### Tissue is the issue: omega-3 phospholipids are more effective



### What is the Omega-3 Index?

The Omega-3 Index measures the amount of omega-3 fatty acids EPA and DHA compared to the amount of other fatty acids in red blood cell membranes. This diagnostic tool provides a useful indication of a pet's long-term intake of omega-3s.

A sufficient Omega-3 Index will be beneficial for keeping a healthy heart, brain, vision, joints and skin, etc.

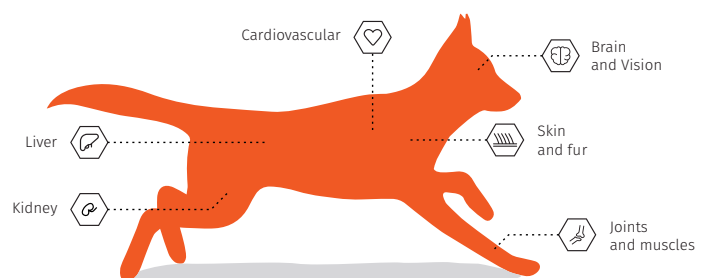
Scientific studies have shown that dogs given food with QRILL Pet increase their Omega-3 Index significantly (63% increase during a six weeks study involving 20 dogs).

### Proven health benefits of omega-3s

**“Omega-3s are proven to have numerous health benefits for pet and humans alike.**

Cats and dogs are not able to produce essential omega-3 fatty acids in their body and require an effective diet for a long and healthy life.

Numerous clinical studies have proven the health benefits of the long chain omega-3 fatty acids EPA and DHA. Once in place in the cell membrane, they support the health of several vital organs, including the heart, kidney, liver, joints, brain, eyes and skin, and are beneficial to maintain a healthy coat.



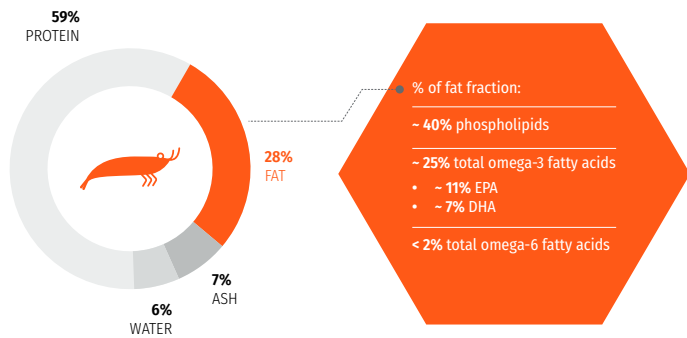
\* Ghasemifard et al. 2015

## More than omega-3s

QRILL Pet is also naturally rich in marine proteins, choline and astaxanthin – a natural antioxidant that protects all body cells from oxidative damage.

When provided in a dog's diet, astaxanthin is integrated into the immune cell and protects it from destruction by free radicals.

Choline is a vitamin-like component that plays an important role in liver health and nerve transmission, and thereby also cognitive function and muscle function.



## Krill, keeping pets healthy and happy

Antarctic krill are present in most oceans around the world, however, they gather together in huge swarms in Antarctica to feed on microscopic algae. Here, they live in the pristine and unpolluted waters of the Southern Ocean and are low in the marine food chain. This means that the Antarctic krill is virtually free of environmental contaminants and toxins.

QRILL Pet is therefore a clean and natural source of nutrients for keeping pets healthy and happy.

## The sustainable choice

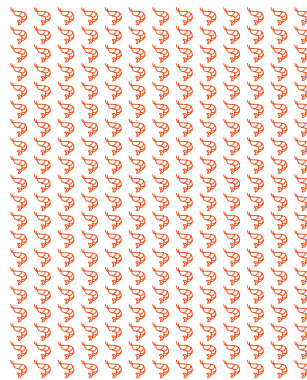
Sustainability has been at the core of Aker BioMarine's mission since its beginnings.

Given the importance of krill as a keystone species in Antarctica, our commitment to ensure a healthy ecosystem for other animals that depend on krill as a primary food source has always been paramount.

### Krill

BIOMASS IN AREA 48:

**62,6 million MT**



### Quota

TOTAL ALLOWABLE CATCH:

**620000 MT (<1% of the biomass)**



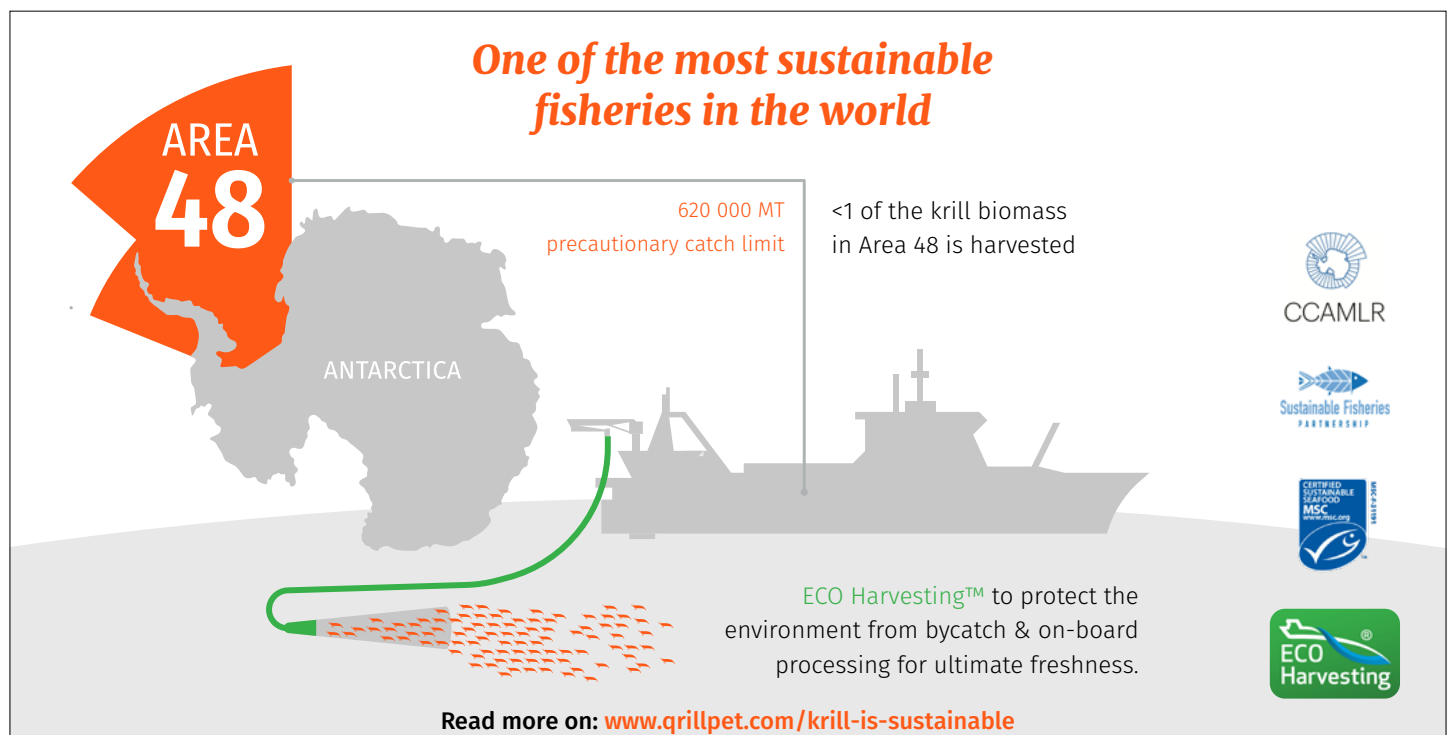
### Krill fishery

TOTAL ANNUAL CATCH:

**<1% of the biomass in Area 48 is harvested**



## One of the most sustainable fisheries in the world



## ***ABOUT QRILL PET***

QRILL Pet is a product of Aker BioMarine, a leading biotechnology company developing and supplying krill derived products for consumer health and animal nutrition. Our fully transparent value chain stretches from sustainable krill harvesting in pristine Antarctic waters through our Montevideo logistics hub and all the way to customers around the world.

Made entirely of Antarctic krill, QRILL Pet keeps pets healthy and happy by delivering long-chain omega-3 fatty acids, marine proteins, choline and the antioxidant astaxanthin.

QRILL Pet is the first krill ingredient for pets certified by the Marine Stewardship Council (MSC) as being sustainable and traceable from sea to product.

