

1-2026



Company brochure

Human Health and Nutrition

zooca[®]
The Calanus[®] Company 

An untapped resource

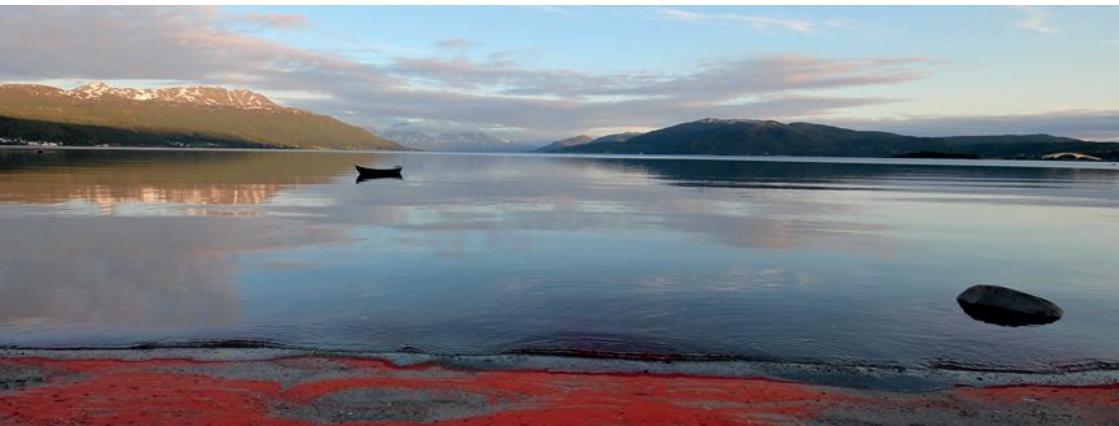
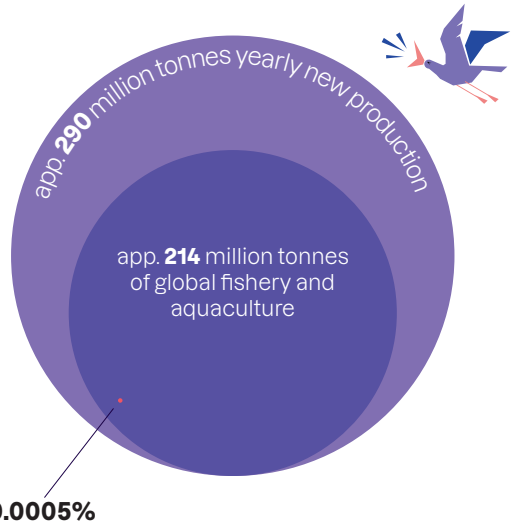
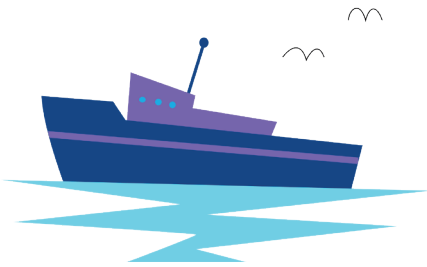
Calanus finmarchicus is a zooplankton species with a one-year life cycle that constitutes a huge marine resource.

Stock assessment and modeling indicate an annual new production of approximately 290 million tonnes in the Norwegian Sea. This is two times higher than the total biomass of all fish species in the same area, including cod, herring and mackerel.

It is significantly higher than the combined biomass of global fisheries and aquaculture.

Today we are harvesting approximately 0.0005% of the *Calanus finmarchicus* available in the ocean.

It has also been highlighted as one of the resources that in a sustainable way can contribute to increase the supply of marine nutrients.



While everybody else was thinking big, we were thinking **small**

Our idea, based on a 3 mm long zooplankton, started more than 20 years ago, and we have been nurturing it ever since.

Today, feeding people and animals with sustainable, healthy, high-quality nutrition has grown considerably, and is still growing.

Zooqa® - The Calanus Company was established in 2002 in Tromsø, Norway. The goal was to utilize the zooplankton *Calanus finmarchicus* to make healthy and unique nutrition products for humans and animals.

The company operates the world's first and only facility tailored for processing this tiny marine crustacean at Sortland in Norway. We remain dedicated to advancing its research and development.

Calanus finmarchicus is one of the most ecologically important species in the marine ecosystem. This is due to its role in the marine food web as a key organism in energy transfer between trophic levels.

We can harvest the species without affecting the population or the marine ecosystem thanks to the high reproduction rate.



We believe the tiniest
of things can have the
biggest impact



Harvested and produced in Northern Norway



The Zooqa factory is located in beautiful surroundings in Sortland

Harvested in our backyard

Naturally pure and minimally processed, there's not all that much we have to do with the *Calanus finmarchicus*.

A sustainable source

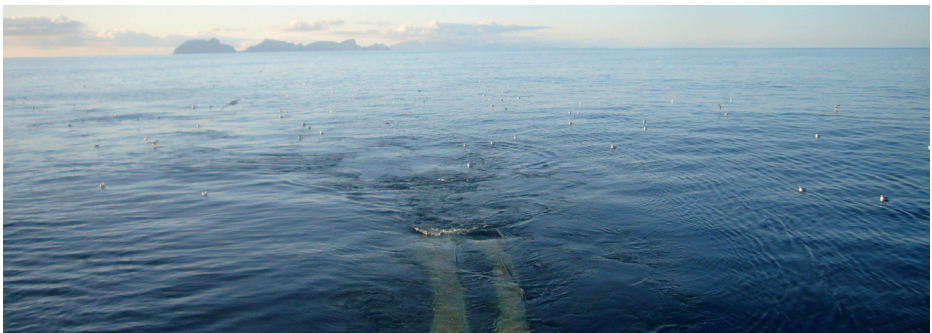
Sustainability is essential in all parts of our value chain. Zooqa has invested, developed, and patented an environmentally friendly technology for harvesting, and we use a special purpose, patented planktonic trawl.

All harvesting operations are carried out with complete transparency. The company adheres to the highest environmental standards in all aspects of its operations and practices.

The development of suitable technology ensures minimal bycatch, and we use whole *Calanus finmarchicus* in production. Only water is filtered out.

The harvest

The harvest season is approximately from the 1st of May to mid-August.



Balanced harvesting in the marine food chain

Calanus finmarchicus is an underutilized resource that sustainably can contribute to meet the growing global demand of marine nutrients.

Today, overexploitation of marine resources at higher trophic levels threatens ecosystem balance, but a solution lies within the ocean's food chain.

Harvesting at lower trophic levels can be better utilized while ensuring a sustainable stock.

There are four levels in the ocean's food chain: plankton, zooplankton and fish levels. Currently, levels 1 and 2 are underutilized, while level 3 and 4 are almost maximum utilized.

Approximately 90 % of ocean biomass remains untapped, emphasizing the

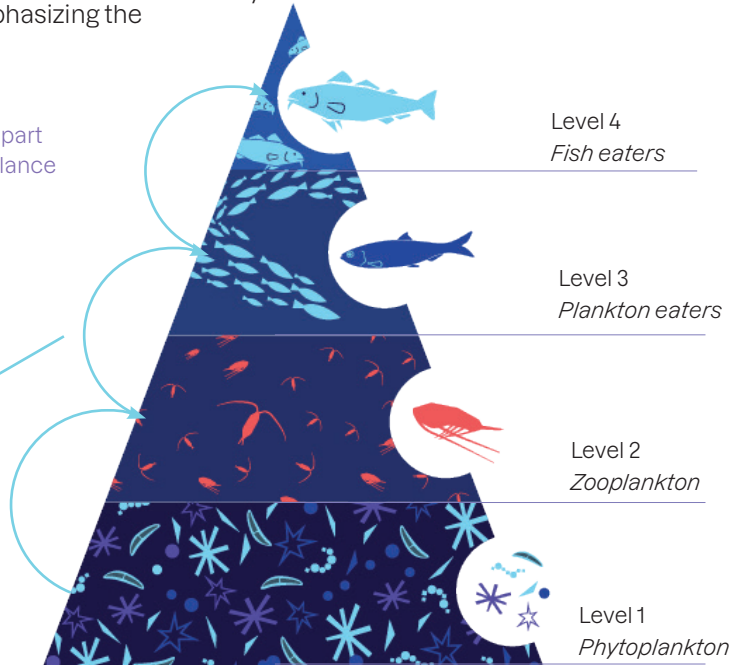
need for proactive harvesting, offering a vast potential for sustainable harvesting at lower trophic levels.

Energy transfer between trophic levels is inefficient, with only 10% of energy being passed on to the next level. Harvesting today is disproportionately concentrated around the higher trophic levels, and specific year-classes, causing ecological imbalance.

Balanced harvesting suggests a shift towards harvesting to proportionately distribute pressure on the marine ecosystem.

Calanus finmarchicus is part of a future solution for balance harvesting in the marine ecosystem

Only 10% of the energy is transferred to the next level



State-of-the-art processing plant

In the autumn of 2021, the world's first *Calanus finmarchicus* bio-refinery was built.



A clean process

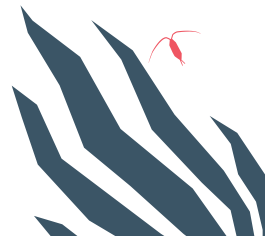
The processing and manufacturing of our protein and oil products at the plant involves no chemicals.

In addition to energy, the key input factors include fresh water and minimal enzyme addition. This solvent-free method, which involves no use of additives, ensures a gentle extraction process for lipids and proteins.

The production avoids the use of hazardous processing aids, and there is no further refining, concentration, or processing involved. This guarantees the resulting products are natural and pure.

The bio-refinery also has advanced control systems that enable the regulation of energy consumption to a minimum of what is necessary for a qualified process. Most of the energy used in the plant goes to heating the process.

An electric hot water boiler has been installed to ensure environmentally friendly heating, and effective heat exchangers are used throughout the process.



From catch to capsule

Nutrient extraction with fully integrated and waste-free process.
Gentle low-heat without solvent or additives.



Calanus converts plankton to nutrients.



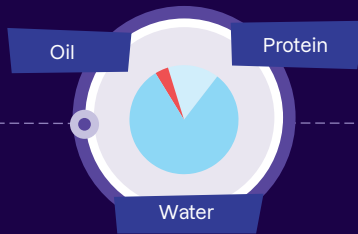
Rapidly frozen after harvest.



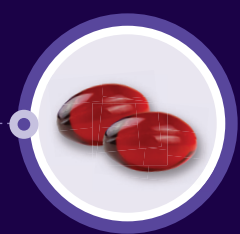
Frozen blocks are grinded, water and a small amount of enzymes added.



The temperature is controlled during the process.



Easy separation by centrifugal force.



Mild and solvent free extraction of functional nutrients.

Certifications

We have strict quality systems, certifications, and product documentation in place. We hold the following certifications:

ISO 9001 - certified since 2015

The international standard for quality management system.

This allows us to demonstrate our ability to consistently provide products that meet customer and regulatory requirements.



MarinTrust - certified since 2019

MarinTrust is a factory certification standard which ensures responsible manufacturing and raw material sourcing.



Friend of the sea - certified since 2020

Friend of the Sea is a globally recognized certification program for sustainable seafood products that helps to promote responsible fishing practices and protect marine ecosystems.



Informed Sport - certified since 2017

Informed Sport is a global testing and certification program for sports and nutritional supplements.

Informed Sport certification allows us to assure athletes that our consumer products, Zooca® Original and Zooca® SPORT, have passed the most stringent sport testing and are safer to use.



Halal - certified since 2023

Halal certification ensures adherence to ethical dietary and religious standards. This certification allows us to cater to diverse preferences and ethical practices.



Made in Norway - certified since 2024

Zooca® products are officially labeled with Norway's origin mark, confirming compliance with strict requirements for origin, responsibility, sustainability.



Science is the heart of everything we do

As the first company in the world, we are persistently working on research and development, documenting the potential of the valuable bioactive components from this unique resource.

We have spent years researching and developing a manufacturing process for *Calanus finmarchicus*. We are able to extract both oil and proteins while preserving the natural bioactive properties of the material.

The different product streams derived from *Calanus finmarchicus* now have a solid track record of documentation - providing insight to the different areas of impact.



At Zooca®, we develop methods to sustainably harvest and utilize *Calanus finmarchicus*. A fantastic renewable resource that can contribute to both food security and public health globally.

20 more than years of research

- 9 PhDs
- More than 20 published peer reviewed papers
- Clinical trials
- More science to come

Our unique products



Our company offers a variety of products made from *Calanus finmarchicus*.

Human Health and Nutrition

- Zooca® Calanus® Oil
- Zooca® Calanus® Soft gel capsule

Animal Health and Nutrition:

- Zooca® Hydrolysate
- Zooca® Powder
- Zooca® SeaFrozen
- Zooca® NutriPods
- Zooca® AstaLipids

- all made from the same high-quality, natural source.

These products are rich in nutrients and bioactive compounds, making them valuable ingredients in various industries such as human nutrition, animal feed, and aquaculture.

Zooca® Calanus® Oil
- metabolic support
for healthy aging



zooca[®]

Calanus[®] Oil



A science-based unique product with substantial documentation to support health benefits.

Unique chemical composition:

- Wax ester based structure enabling a distinctive lipid profile and gradual nutrient release

Broad-spectrum lipid profile

- Contains more than 40 different fatty acids, including omega-3s EPA, DHA, and SDA, bound in their natural form

Beyond traditional omega-3

- Also include monounsaturated lipids, marine policosanols and astaxanthin

**Broad-spectrum
Fatty Acid with
Marine Policosanols
and Astaxanthin**

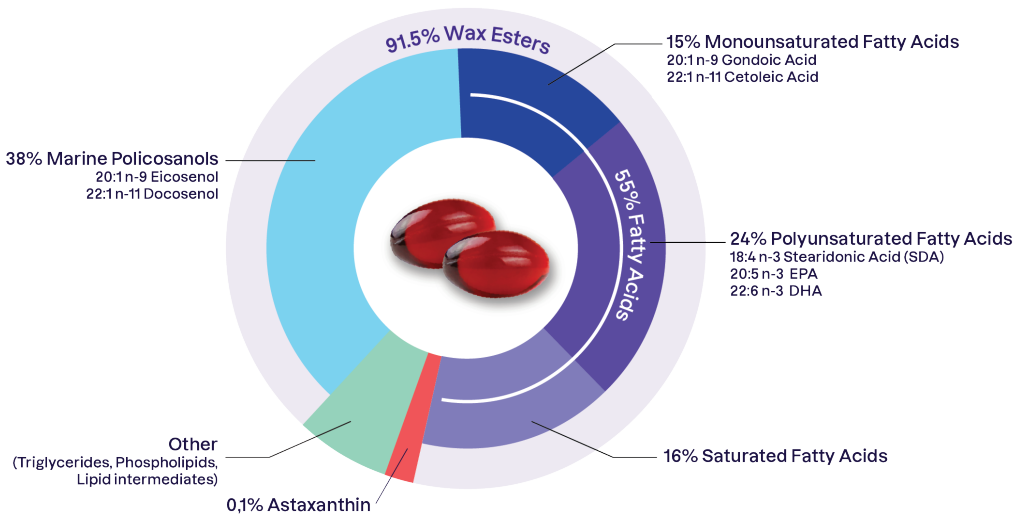
Beyond omega-3

ZooCa Calanus Oil is a novel bioactive fat that is more than just an omega-3. Containing a broad-spectrum fatty acid profile, oil from *Calanus finmarchicus* naturally has 40 different fatty acids, bound in their natural form.

In the sea, *Calanus finmarchicus* stores its energy as liquid wax, or as wax ester, which is a combination of marine policosanols and fatty acids bound together.

Rounding out its full nutrient profile, ZooCa Calanus Oil naturally contains the Omega-3s EPA, DHA, and SDA, as well as Monounsaturated Fats such as Omega-7 and Omega-11, and nutrients such as marine policosanols and astaxanthin.

Only ZooCa Calanus Oil has marine policosanols, which are naturally bonded to the Omegas, to create a unique combination at a molecular level. This is the big difference from other omega-3s.



Unique chemical structure

- we believe this is an important feature

Zooca Calanus Oil has a unique chemical composition of wax esters, containing several bioactive compounds. Its special composition sets it apart from any other marine and plant oils. Both studies on acute bioavailability considering the plasma concentrations of EPA and DHA, and long-term bioavailability as measured by the omega-3 index shows excellent results.

The delivery form of wax esters is known to be slow digested. This implies longer retention time in the GI-tract, delivering the bioactive components to the distal part of the intestines and hence reaching specialized nutrient receptors only localized in this area.

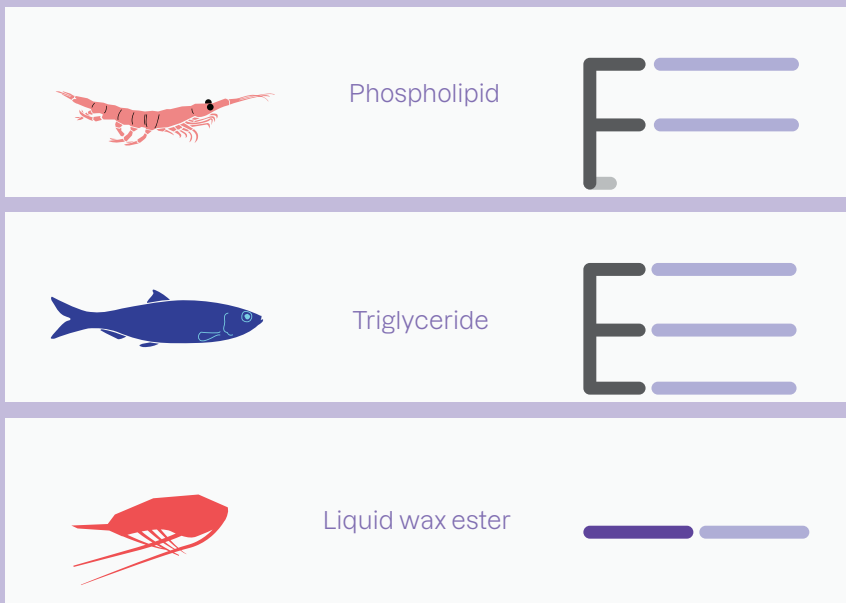
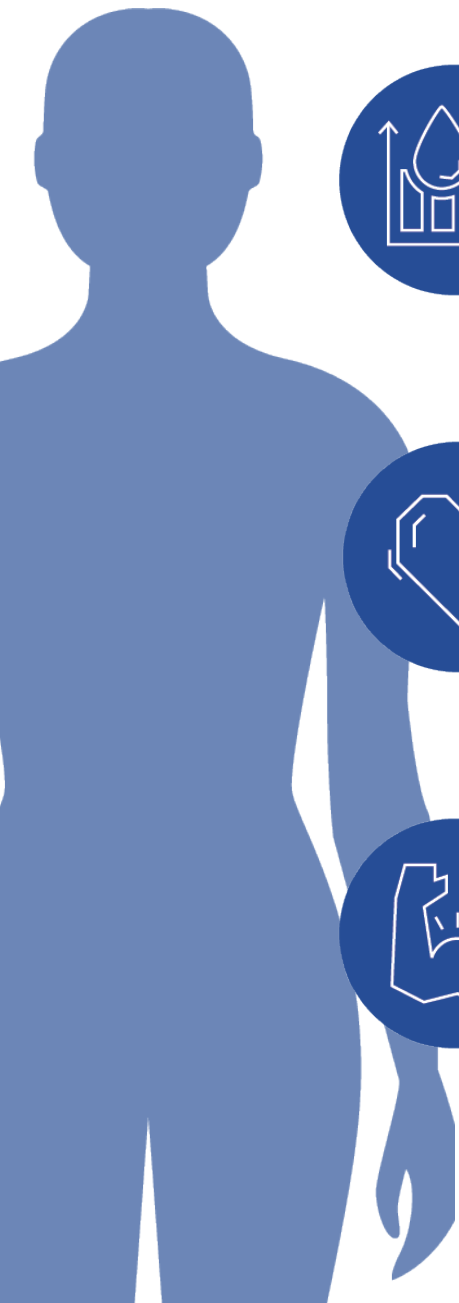


Figure: Chemical differences of Zooca Calanus Oil, shown as wax esters vs. conventional lipids

Metabolic support for healthy aging



Supports Metabolic Regulation and Glucose Management

- Increased insulin sensitivity by 12%
- Reduced HOMA-IR
- Healthy glucose management



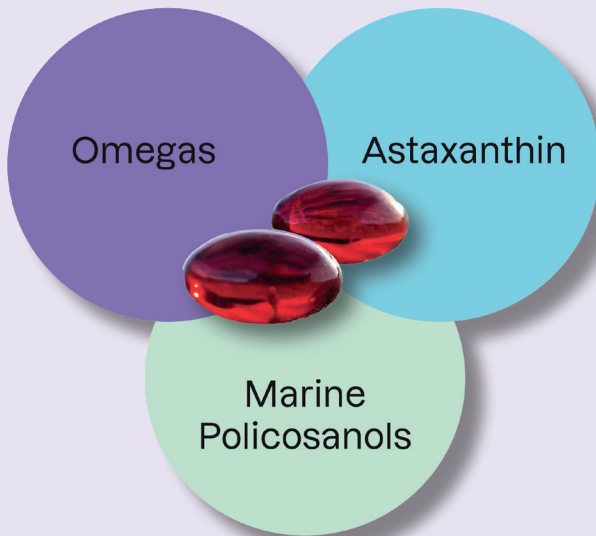
Enhanced Cardiac Function

- Increase heart pumping capacity by 7 %
- Improved diastolic function (E/A ratio)
- Supports cardiac elasticity



Healthy Body Composition

- Increase muscle-to-fat ratio
- 2,3 kg fat reduction
- 1,1 kg muscle increase
- Synergistic effects when combined with physical activity



Designed and inspired by nature- backed by science

A natural, slow-release, highly sustainable, broad-spectrum Omega designed by nature for long-term metabolic support.



Clinically studied to support long-term metabolic health.

Move beyond standard Omega-3 to the next generation marine lipid innovation.



Innovate with Nature



Our products have been awarded the official origin label of Norway

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