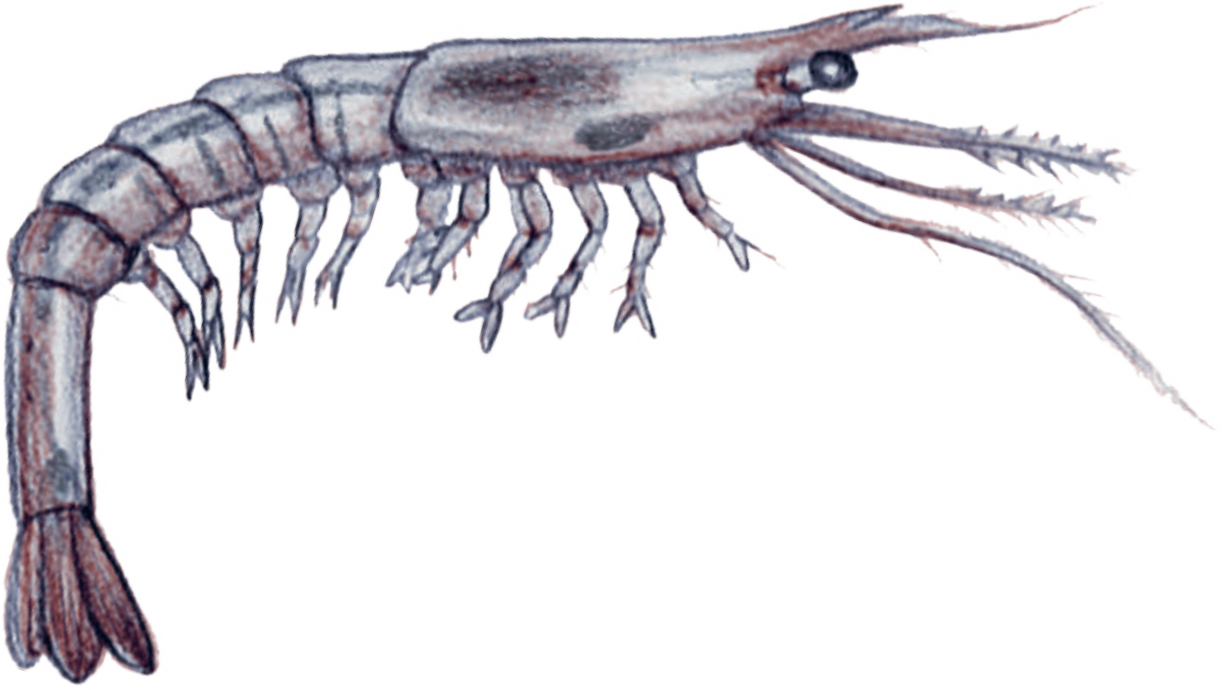
Perfection in micro nutrition



PL is the new high quality shrimp feed from Skretting which has been designed to offer an advanced nutrition to larvae and post-larvae.

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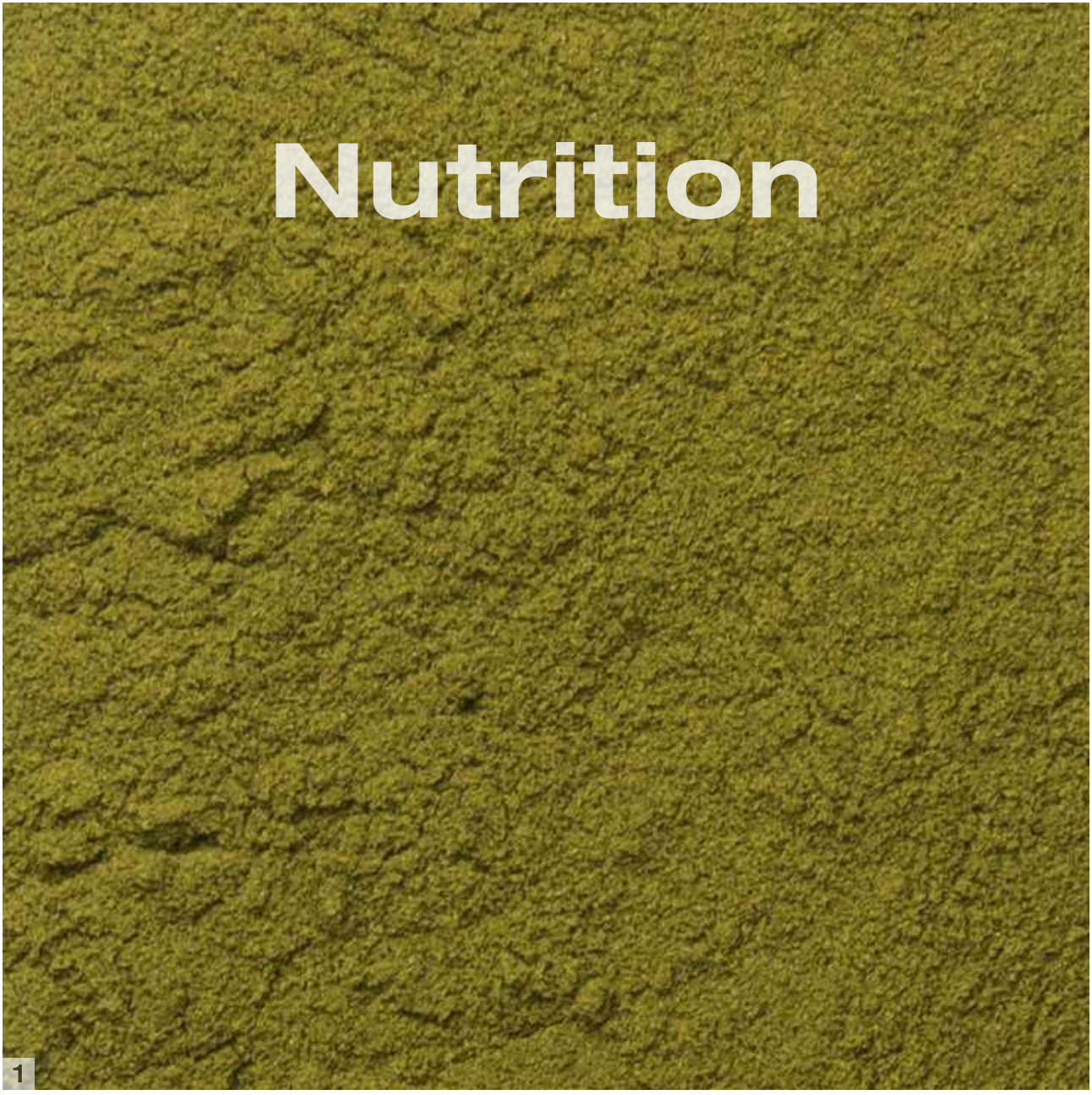

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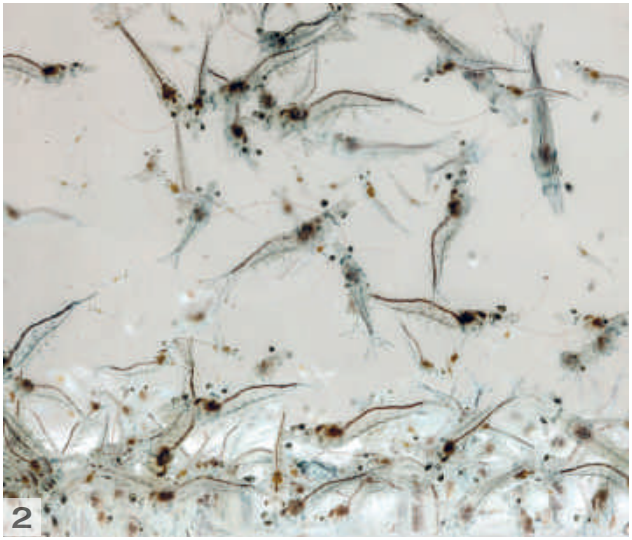

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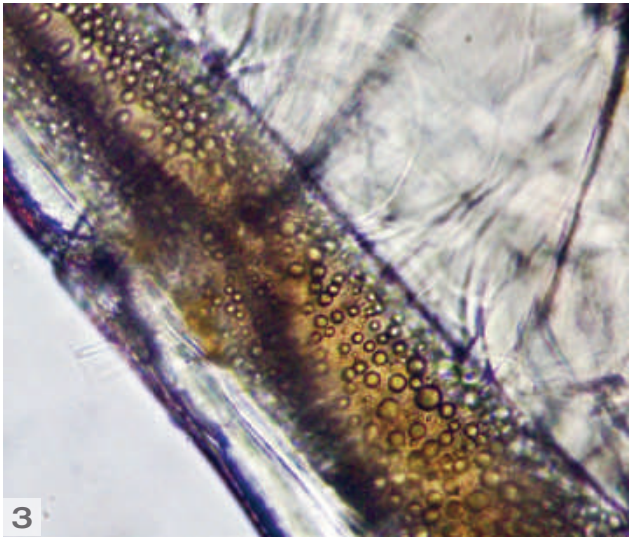

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1. PL diet
2. Penaeus vannamei post-larvae
3. Enhanced lipid deposition (© Aquatec)

Optimal digestibility

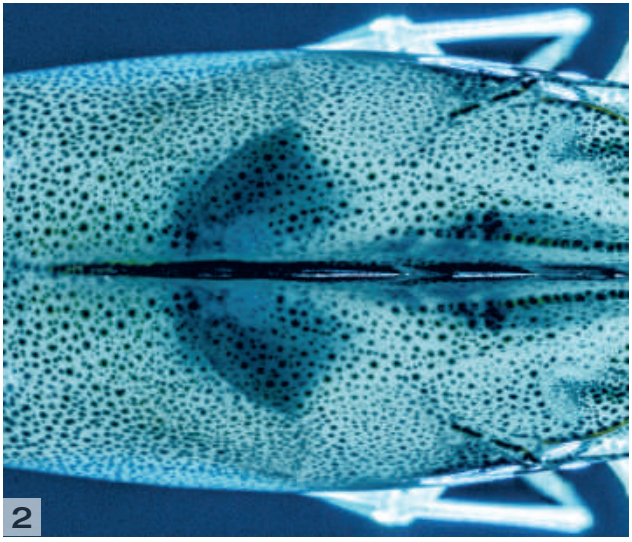
PL is highly digestible and is formulated with specific hydrolysed proteins, highly unsaturated fatty acids (HUFA), phospholipids, marine algae, vitamins and minerals to provide a complete nutritional profile for larval shrimp.

The complete formulation

PL is a sophisticated and innovative feed solution designed for shrimp from zoea to nursery stages of the life cycle.

Health

1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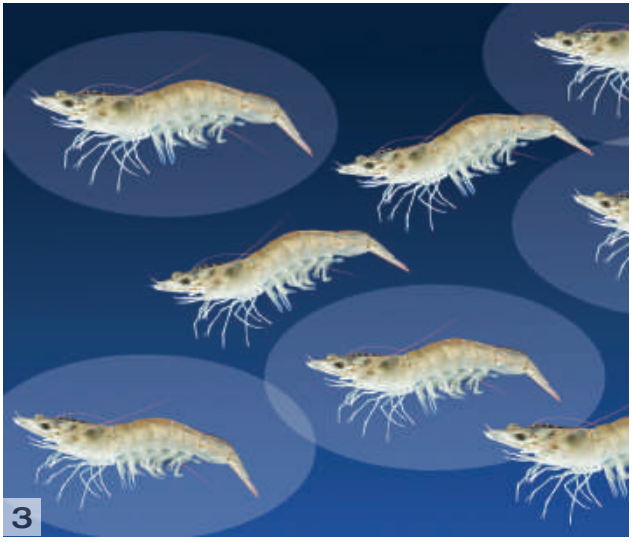
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1. Penaeus vannamei
2. Dorsal view of the hepatopancreas
3. Graphic illustration of population safeguarding

Immune stimulation

PL contains specific immune promoting natural functional ingredients that together assist with digestion, stabilising gut pH and support the optimal well-being of shrimp larvae. Improvements to overall shrimp health help to shield the shrimp from environmental impacts.

Infection protection

A fortified immune system can assist to protect against pathogenic bacteria, and not only improves the viability of that individual but reduces the potential of release of bacteria to infect other shrimp. This concept reduces the epidemic potential of an infection outbreak.

Physical quality

1

1. *Feed distribution*
2. *Cleaner tanks and reduced foam production (left tank: control; right tank: PL). © Aquatec*
3. *Tanks*

Sophisticated production

PL is produced according to a sophisticated process that ensures fresh, soft and highly palatable feed with optimal water stability of each micro particle.

PL is a dry diet with gradual hydration and effective dispersion, ensuring maximum consumption. Each particle offers a complete nutritional solution which allows for significant reduction in the use of *Artemia*.

Cleaner systems

The production process enables the creation of clean, homogeneous and dust-free micro particles, and ensures that less nutrients are lost prior to ingestion. These qualities assist to maintain high water quality in production systems.

PL is available in 5 particle sizes according to the size of the larva and post-larva.

Figure 1 – Net gain vs. traditional feeding protocols

In various commercial field trials in industrial hatcheries where the PL diets was compared to the local standard, the relative output was increased from +5% to +30%

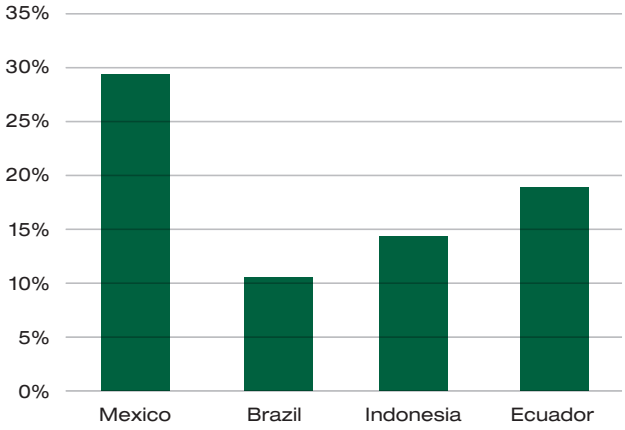


Figure 2 – % survival rate PL diet vs. traditional diet

In every commercial trial the use of PL diet resulted in a significant increase in survival and post larval quality. In addition, water quality was also reported as being significantly better

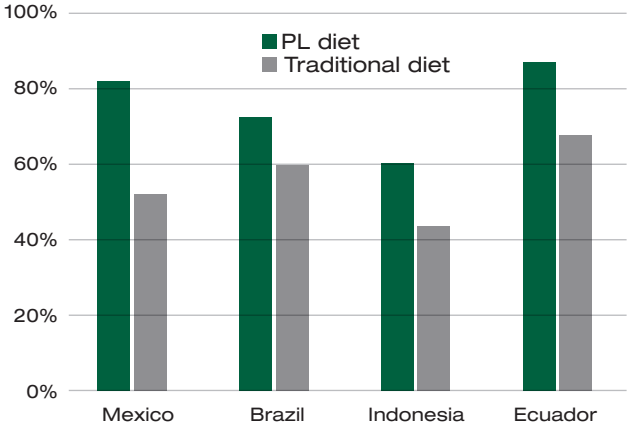


Figure 3 – Size comparison in PL length (mm)

In all commercial evaluations, shrimp size was either the same or bigger when using the PL diet. In addition, size uniformity was significantly improved. A better gut muscle ratio was also observed with clear lipid deposition

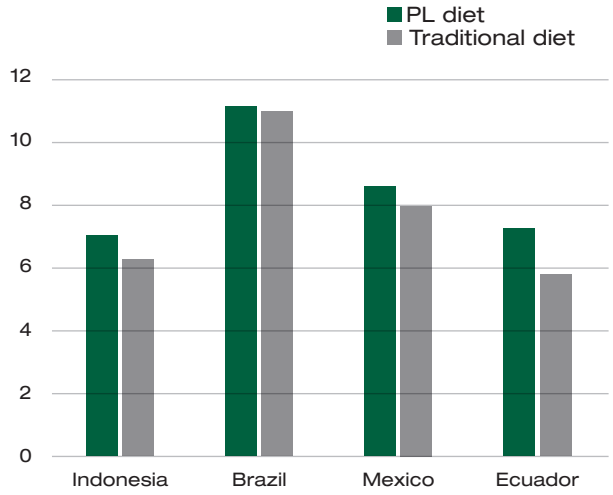
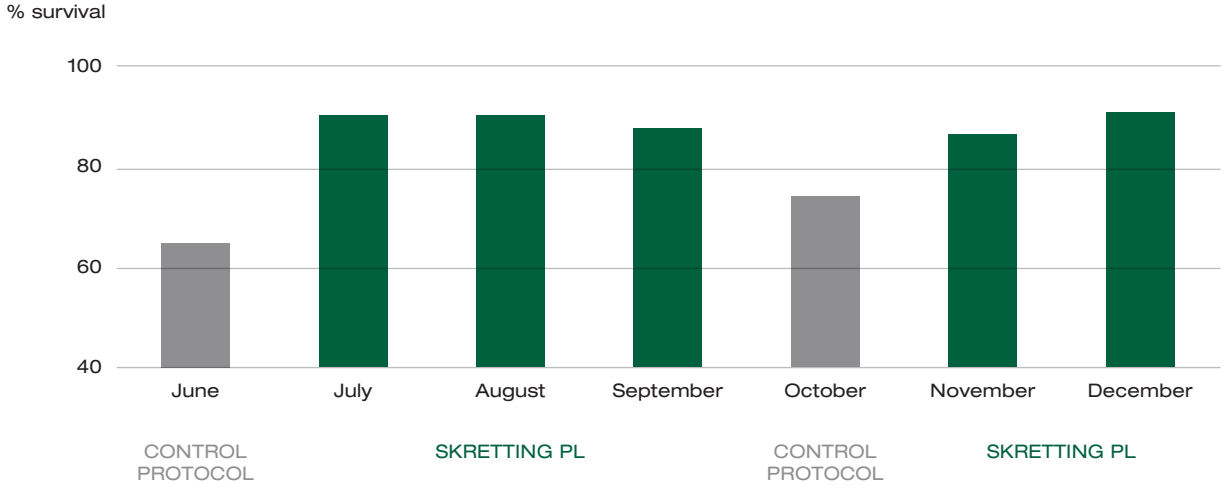
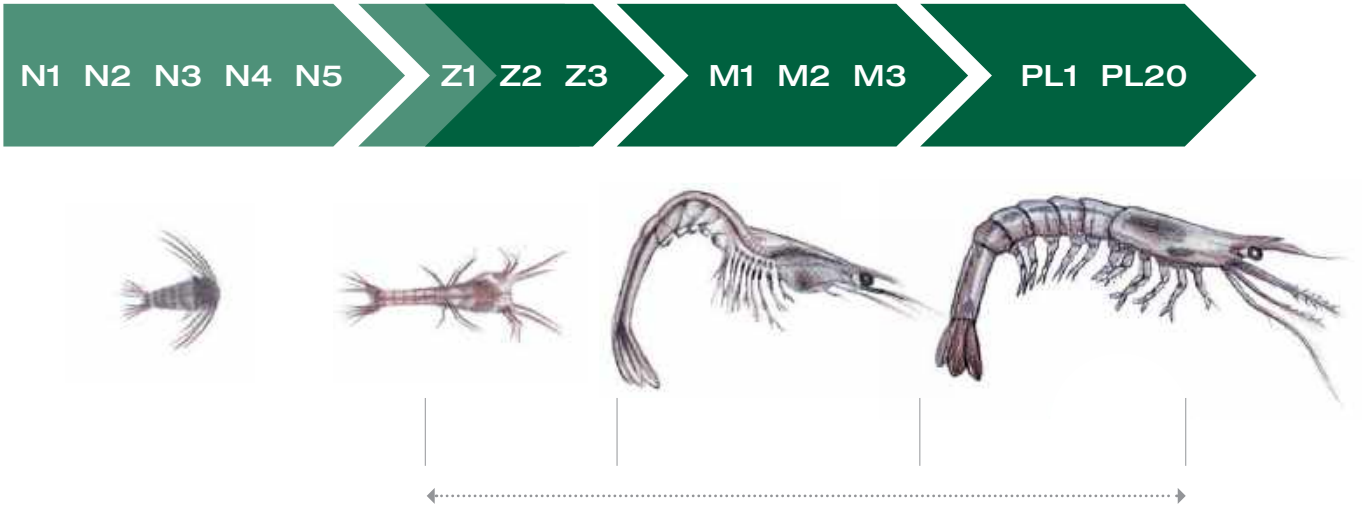


Figure 4 – Monthly impact on production output with PL diets and control protocols in an industrial hatchery



The hatchery life stages



Skretting is a world leading producer and supplier of feed for farmed fish and shrimp. Total annual production of high quality feed is approximately 2 million tonnes. Skretting has operating companies in five continents to produce and deliver feeds, from hatching to harvest, for more than 60 species of farmed fish and shrimp.

www.skretting.com

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