



Maximum vitality for offspring



Vitalis 2.5 is an innovative feed from Skretting for shrimp broodstock that provides specific nutrition and biosecurity for egg and nauplii production.





Nutrition

1



Vitalis 2.5 is a standardised maturation diet for broodstock shrimp that allows the production of equal quality nauplii at every spawn.



Formulation

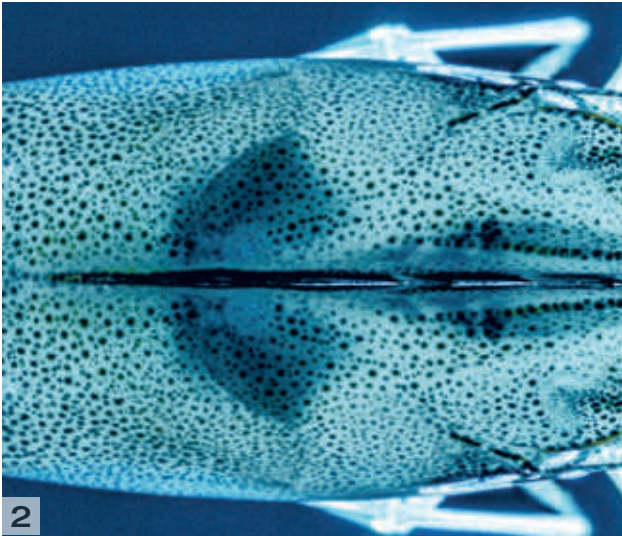
The formula is based on a high inclusion of hydrolysed marine protein components, algae, omega 3 fatty acids (DHA/EPA), vitamins and minerals. The diet is formulated with a high protein content to support the high fecundity and spawning frequency.

1. *Vitalis 2.5*
2. *Broodstock shrimp*
3. *Nauplii*

Biosecurity



1



2

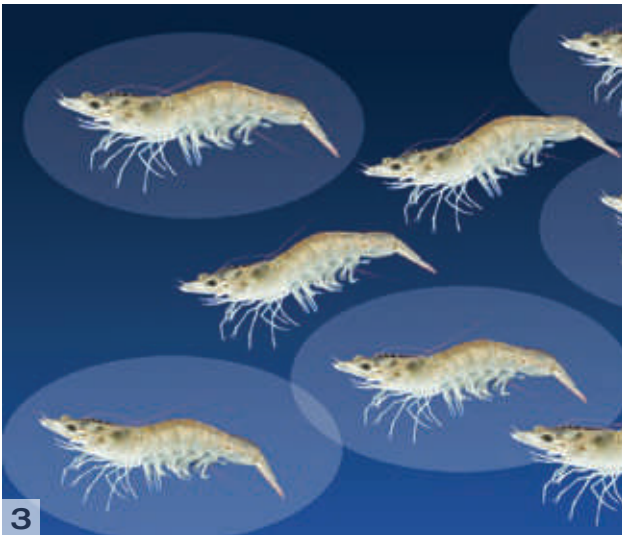
Vitalis 2.5 contains a specific combination of natural functional ingredients that enhance the immune system, strengthening the shrimp against disease and fortifying it for transfers and handling.

Standardisation

Feeding with Vitalis 2.5 provides the ability to produce nauplii with equal quality day after day, resulting in superior simplification of broodstock management.

Low biosecurity risk

Vitalis 2.5 is an innovative broodstock rearing strategy that minimises the use of fresh diets while enhancing offspring production. This means that many of the transmissible disease challenges can be avoided.



3

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

Physical quality



1



1. Broodstock tank
2. Vitalis 2.5

Better health and water quality

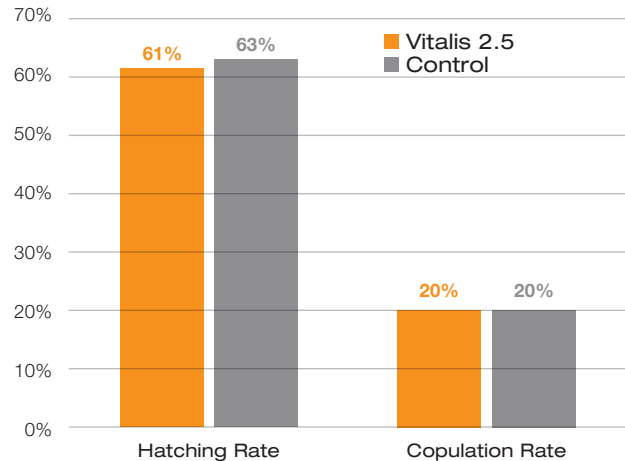
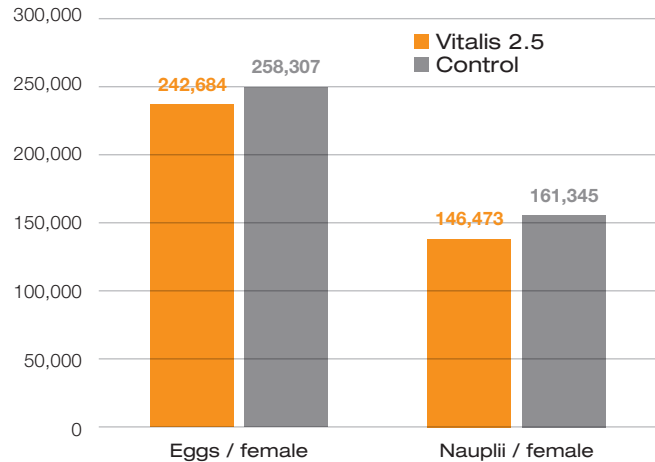
Vitalis 2.5 has been shown to be highly attractive to shrimp, and has contributed positively to overall health of broodstock thanks to better water quality in the maturation tanks.

Sophisticated production

Vitalis 2.5 is a cold extruded semi soft pellet which is 2.5mm in diameter and approximately 5mm in length. The diet is a soft but highly stable sinking pellet which does not degrade in the water.

Figures 1 & 2 - Broodstock performance comparison between Vitalis 2.5 and a traditional maturation protocol

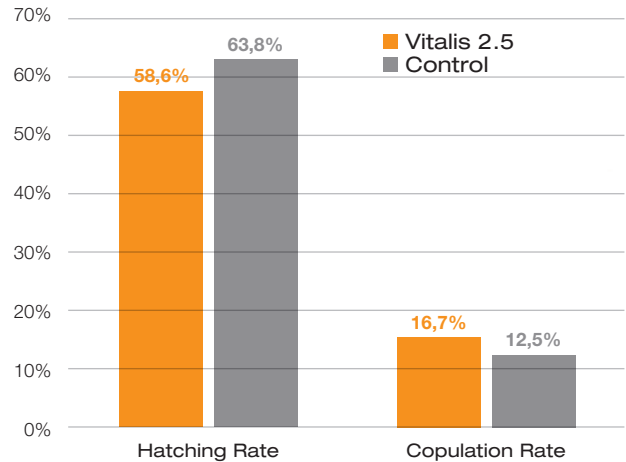
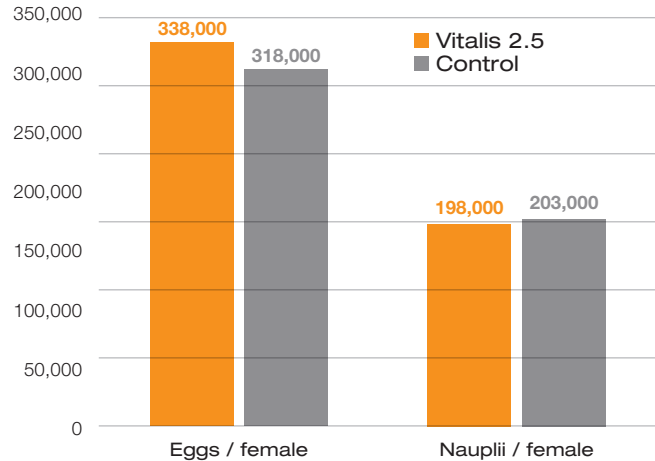
In this commercial hatchery in Brazil, fresh feed was reduced from 24% to just 5% squid & 3% Vitalis 2.5. Long term replacement show no negative effects while survival of the females was greatly improved due to the excellent water quality & low *vibrio* counts.





Figures 3 & 4 - Broodstock performance in a second commercial hatchery in Brazil

In this hatchery fresh feeds were also replaced by 80% showing consistent & improved spawning performance. As indicated in both these experiences from commercial hatcheries, significant replacement of fresh feeds is now a reality.



Feeding protocol

TIME	02:00	10:00	13:00	17:00	20:00	00:00
FEED	Vitalis 2.5	Vitalis 2.5	Squid	Vitalis 2.5	Vitalis 2.5	Squid
% BW	0.75	0.75	2.00	0.75	0.75	3.00

Note: For smaller sized broodstock (<35gr), Skretting is developing a separate feeding program





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.