

NUCLEOFORCE SHRIMPS **Plus**

Immunity & Growth

Nucleoforce Shrimps Plus™ is a concentrate of free Nucleotides, specially designed to shrimps, with a minimum nucleotide concentration available of 24 %.

Its special profile of Nucleotides helps animals develop their immune and digestive systems.

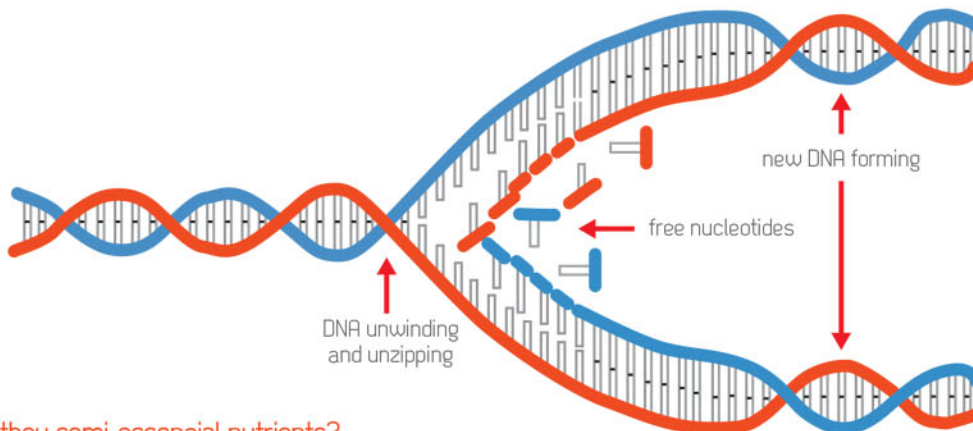
MAIN EFFECTS ON SHRIMPS

- Disease resistance
- Immune system development
- Digestive system development
- Less variability
- Improves the growth
- Increase the egg production

FAQS ABOUT NUCLEOTIDES

¿What are Nucleotides?

Nucleotides are **semi-essential nutrients** that are the structural units of the nucleic acids in cells. Their molecular composition of nucleotides is based on a sugar, a nitrogen base and one to three phosphate groups.



¿Why are they semi-essential nutrients?

The eggs and shrimp diet containing natural substances rich in nucleotides, providing a source of young animals nucleotides available to tissues with little capacity for de novo synthesis.

Main effects on animals

Nucleotides are particularly necessary for the development of tissue with a high rate of cell replication, such as the tissue in the reproductive, immune, and digestive system.

They play an important role in situations where de novo or endogenous synthesis alone does not completely satisfy their needs.

The incorporation of Nucleoforce Shrimps Plus™ in the diet helps get animals more resistant to diseases and also minimizes the negative effects associated with stress productively.

APPEARANCE

Product in cream-coloured powder form with characteristic taste and aroma.

DOSAGE

Shrimps ponds:

- Raceways: 0,5 -1 gr NF/ MT of WATER /day from PL 10 to 20-30 days. (extrapellet)
- 1 kg NF / MT of FEED to 60 days. (extrapellet)

Feed Mills:

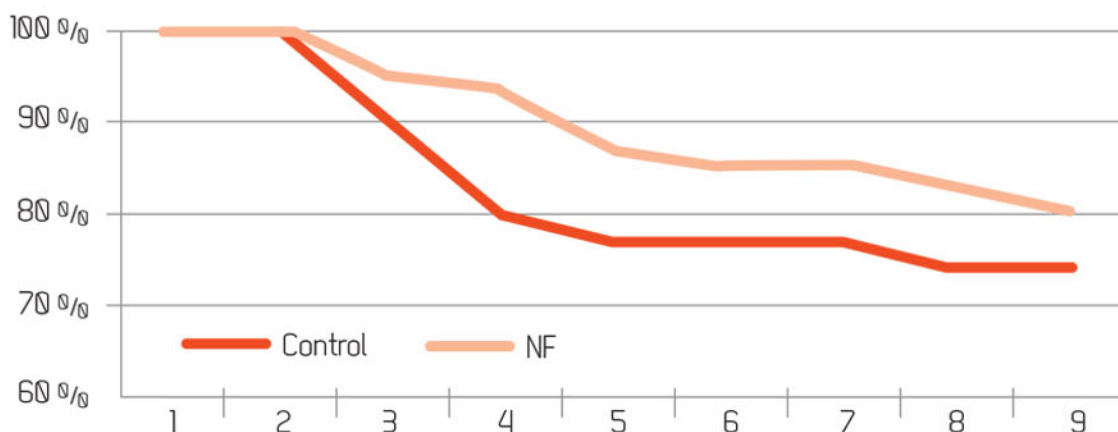
- To 60 days: 500 gr NF per MT of FEED (Intrapellet)

Results of the growing period:

P<0,05	Biomass per tank before infection (g.)	Survival rate before infection (%)
Nucleoforce Shrimps	345,8	97 a
Control	338,6	73,9 b

500 animals per treatment/ 5 replicates/ 5 tanks of 500 L each replicate.
From 0,02 gr to 3,5 gr (infection)

Survival after the challenge with White Spot disease 9 days post infection



Immunity and growth performance of *Litopenaus Vannamei* after White Spot infection.
Cenaim, Espol, Ecuador, 2014