

PAQ-Protex™

Natural protection for superior growth

PAQ-Protex[™] is a natural feed additive especially designed for shrimp. It contains a saponin blend from Yucca schidigera and Quillaja saponaria plants that:

- Promotes gut health and increases the ability to absorb nutrients from feed
- Improves feed conversion and growth performance
- Contributes to reduce the load of parasites in shrimp
- Reduces ammonia levels in the gut and in the culture water

GUT FUNCTIONING

Improved ability to absorb the nutritional value of feed

GROWTH PERFORMANCE

More efficient conversion of feed into biomass

WATER NITROGEN

Reduces ammonia levels in culture water

PARASITE CONTROL

Contributes to reduce gregarine infections in penaeid shrimp

KNOWN EFFECTS OF SAPONINS

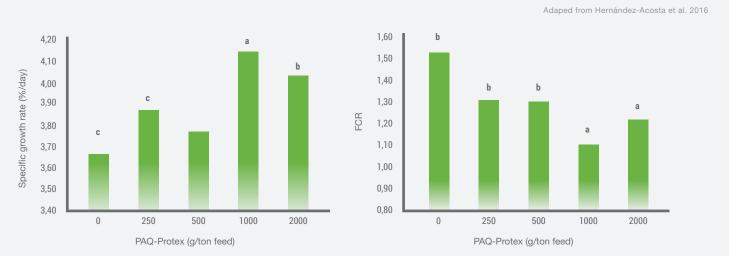
Saponins are a group of organic molecules synthetized by several plants, including *Yucca schidigera* and *Quillaja saponaria*. Most saponins show numerous beneficial properties, including antimicrobial and anti-inflammatory properties, as well as an improved gut nutrient absorption.

Structure of Yucca saponin



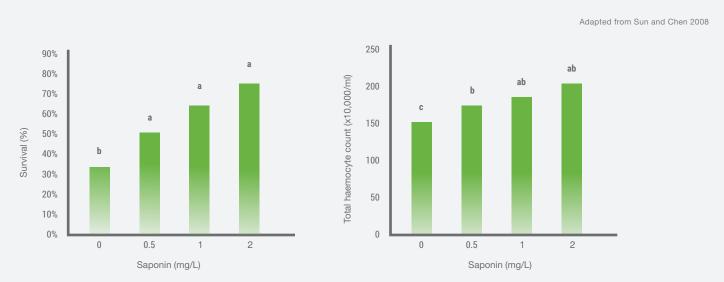
Benefits of PAQ-Protex[™]

PAQ-Protex[™] increases shrimp growth by improving the feed conversion ratio and the absorption of nutrients from the feed.



Specific growth rate and feed conversion ratio (FCR) of Whiteleg shrimp (*L. vannamei*) fed a control or a PAQ-Protex[™] supplemented diet at different dosages during 40 days. Different letters denote significant differences (*p*<0.05).

PAQ-Protex[™] improves shrimp survival and immunological response.



Survival and total haemocyte count (THC) of Whiteleg shrimp (*L. vannamei*) immersed in *Quillaja saponin* suspension at different concentrations for 5 days. Different letters denote significant differences (*p*<0.05).

The saponins in PAQ-Protex[™] also:

- Contribute to healthy intestinal tracks of shrimp by reducing the number of parasites
- Control ammonia levels in the water by facilitating its conversion to nitrate

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www.phibro-aqua.com

info@phibro-aqua.com

