

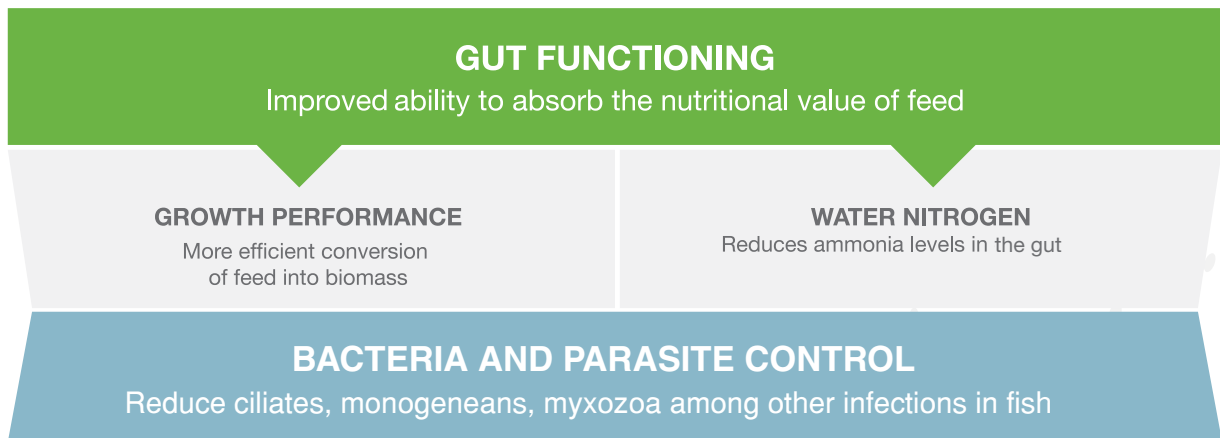
# PAQ-Protex™



## Natural protection for superior growth

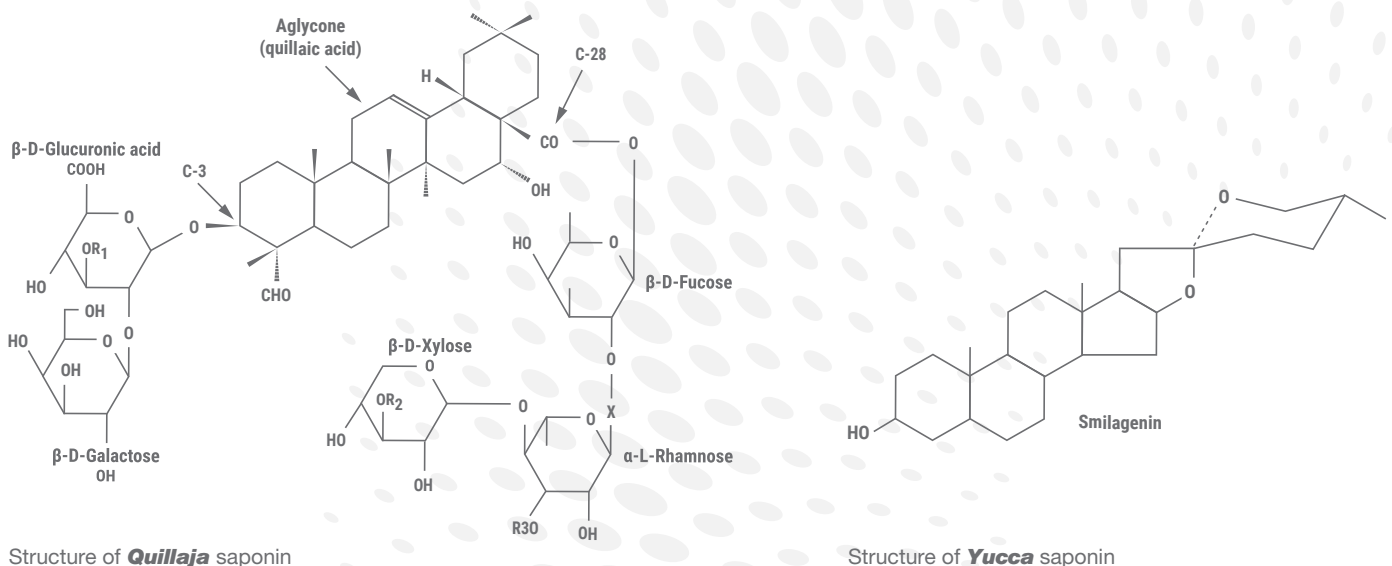
PAQ-Protex™ is a natural feed additive especially designed for aquaculture. It contains a saponin blend from *Yucca schidigera* and *Quillaja saponaria* plants that:

- Promotes gut health and increases the ability to absorb nutrients from feed
- Improves feed conversion and growth performance
- Help to reduces diseases (by modulating host innate and adaptive immune system)
- Reduces ammonia levels in the gut and in the culture water



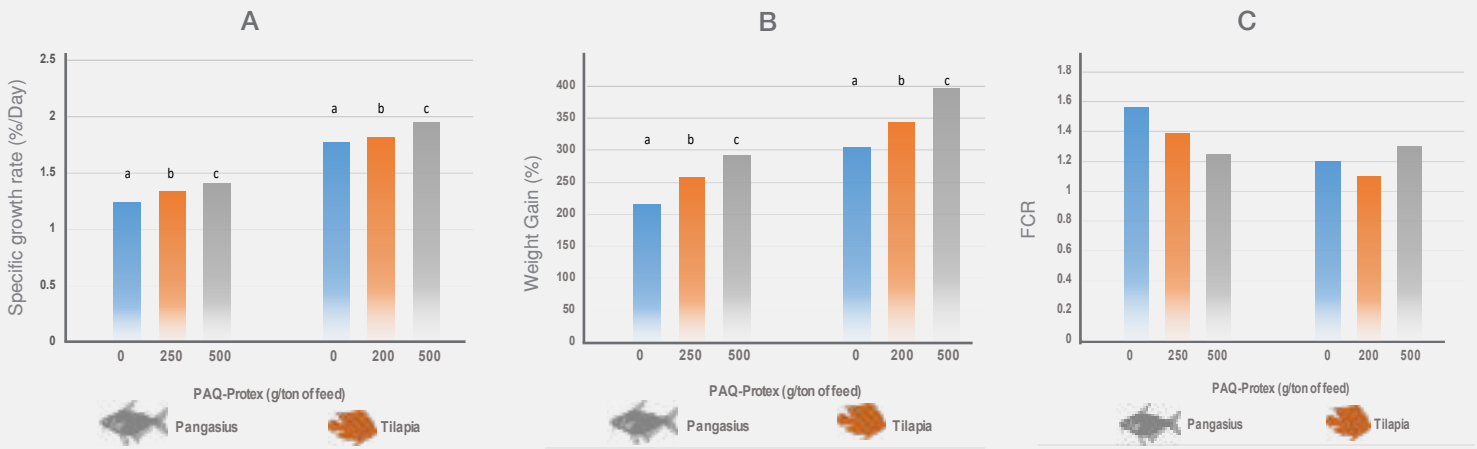
### KNOWN EFFECTS OF SAPONINS

Saponins are a group of organic molecules synthesized 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.



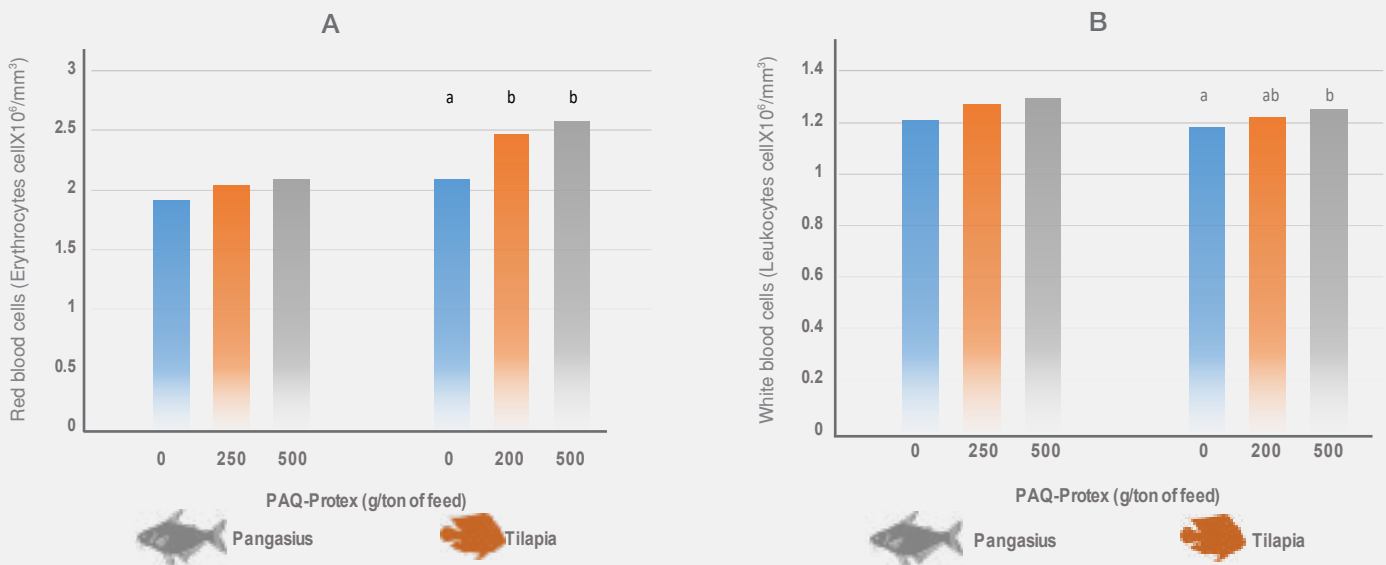
# Benefits of PAQ-Protex™

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



Specific Growth Rate (A), Weight Gained (B) and FCR (C) fed a control or a PAQ-Protex supplemented diet at different dosages. Different letter at the top of the bars ( $p < 0.05$ ).

## PAQ-Protex™ improves fish and immunological response



Number of Erythrocytes cells (A) and Leukocytes cells (B) for Pangasius (*Pangasianodon hypophthalmus*) and Red Tilapia (*Oreochromis sp*) fed a control or a PAQ-Protex supplemented diet at different dosages. Different letters in the top of the bar ( $p < 0.05$ ).

## The saponins in PAQ-Protex™ also:

- Contribute to healthy intestinal tract of fish by helping to reduce diseases and reducing the number of parasites
- Control ammonia levels in the gut and water by facilitating its conversion to nitrate

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[www.phibro-aqua.com](http://www.phibro-aqua.com) [info@phibro-aqua.com](mailto:info@phibro-aqua.com)

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