



# THE SMARTER, STRONGER CHOICE FOR AQUACULTURE PERFORMANCE






## Power Up Your Aqua Feed with CELMANAX™

Your fish and shrimp deserve more than basic nutrition—they deserve a feed additive that works harder, faster, and more consistently. CELMANAX™ is a multi-component, all natural postbiotic and prebiotic feed supplement. When performance, survival, and reliability matter, CELMANAX™ delivers.

### WHY PRODUCERS CHOOSE CELMANAX™

#### One Product. Multiple Functions. Maximum Value.

Its refined functional carbohydrates are designed to:

-  Support gut health and stronger immunity
-  Help improve survivability in stressful or high-challenge environments
-  Provide reliable performance across all life stages
-  Replace multiple ingredients with one cost-effective solution
-  Reduce variability and help protect your bottom line

#### Backed by Refined Functional Carbohydrates™ (RFCs™)

Created through our proprietary enzymatic hydrolysis improve flow: process, RFCs drive consistent performance in aquaculture.

#### More bioavailable carbohydrates equals more predictable results.

- 1 MOS and mannose can inhibit certain bacteria
- 2 Beta glucans strengthen the immunity
- 3 Yeast metabolites improve feed digestibility

**Whether you're managing shrimp, tilapia, catfish, or other species, CELMANAX™ helps you get more from every crop.**

To learn more about CELMANAX™ contact your ARM & HAMMER Animal Nutrition representative.

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## RESEARCH PROVEN

### Supporting Shrimp Health, Immunity & Performance.

*In vitro* studies demonstrate dose dependent inhibition of multiple *V. parahaemolyticus* strains originating from key shrimp producing regions.

	<i>V. parahaemolyticus</i> strain				
	# 41	# 42	# 44	# 49	# 51
APHND Status	Neg	Pos	Pos	Neg	Neg
Country of Origin	Vietnam	Vietnam	Mexico	Ecuador	Mexico
% Inhibition with CELMANAX	>90%	>90%	>90%	>90%	>90%

CELMANAX™ supplementation in shrimp challenged with *V. parahaemolyticus* resulted in reduction in mortality rates from 50.8% in control to up to 30% in CELMANAX supplemented shrimp and fewer visible AHPND lesions. Performance trials showed significant improvement in body weight, FCR and survival rate.



Table 1. Effect of Celmanax supplementation on shrimp performance

Parameter	Control	CELMANAX 100 PPM	CELMANAX 200 PPM
Initial BW, g	1.20 ± 0.05	1.20 ± 0.05	1.20 ± 0.05
Final BW, g	9.24 ± 0.18 <sup>c</sup>	10.51 ± 0.08 <sup>b</sup>	11.14 ± 0.23 <sup>a</sup>
Weight gain rate, %	611.1 ± 14.2 <sup>c</sup>	708.1 ± 6.0 <sup>b</sup>	756.8 ± 17.5 <sup>a</sup>
Survival, %	80.0 ± 2.5 <sup>b</sup>	90.0 ± 8.7 <sup>ab</sup>	98.0 ± 3.5 <sup>a</sup>
FCR FI/BW	1.72 ± 0.07 <sup>a</sup>	1.35 ± 0.03 <sup>b</sup>	1.31 ± 0.12 <sup>b</sup>

Superscripts within a row <sup>abc</sup> P ≤ 0.05 indicate significant differences between treatments.

### Improving performance, gut health and yield in Tilapia

In a 90-day trial in Tilapia, CELMANAX supplementation significantly improved performance and yield because of better gut morphology, immune function and gut microbiome balance.



Table 2. Effect of Celmanax supplementation on Tilapia performance

	CELMANAX 0 PPM	CELMANAX 100 PPM
Initial Weight	20.63	20.73
Body Weight	273.33 <sup>c</sup>	308.60 <sup>a</sup>
BWG	252.70 <sup>c</sup>	287.86 <sup>a</sup>
FCR	1.36	1.25
% Fillet Yield	24.708 <sup>b</sup>	29.022 <sup>a</sup>

Similar performance and livability data is available in other aquaculture species such as Olive Flounder, eels, catfish challenged with *Flavobacterium columnaris*, and in Artemia –reinforcing the broad value of our solution across diverse production systems.

#### Minimum feeding recommendations:

##### CELMANAX Liquid:

100 ppm via water or 200 ppm via feed

##### CELMANAX SCP:

100 g per metric ton of feed

#### 2X feeding rates recommended for challenge conditions

## CONCLUSION

CELMANAX™ provides reliable, natural support for health and productivity in various aquaculture species.

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