



Vpak is a powerful feed supplement premix designed to enhance immunity, featuring natural bioactive ingredients and select immune-specific nutrients that fuel the innate immune system for stronger, healthier aquatic species.

Vpak improves animal performance through:

- Improved stress response
- Improved immune functions
- Improved survival
- Reduced days off feed maximizes daily gain and improves FCR

FEATURES & BENEFITS

- High purity and highly concentrated active ingredients allow for low dietary inclusion
- Unique processing technology allows for improved efficacy
- Zeigler technical support
- Definitive lab results
- Definitive farm results
- Product of over 20 years of continuous Zeigler R&D

IMPROVEMENTS

Proprietary Organic Acid Blend

- New emulsion technology for higher bioavailability
- Manages gut inflammation
- Better gut pH management

Proprietary Essential Oil Blend

- All-natural compounds
- Stable and palatable due to unique processing technology
- Highly antimicrobial

Synergies of these compounds

- Better together
- Improved gut health
- Optimized microbiome
- Improved immune function for viral and bacterial pathogens



SHRIMP IMMUNE RESPONSE

- Feeding Vpak resulted in shrimp with significantly higher hemocyte levels
- Increased phagocytic capacity
- Increased proPO capacity
- Lab challenges demonstrated higher pathogen clearing rates for both WSSV and AHPND



SHRIMP FARM TRIALS

- Feeding Vpak on the farm resulted in consistent improved results over farm projections
- Vpak significantly improved survival on the farm
 - Vpak improved survival 10% over farm actuals
 - This allowed for higher feeding rates and resulted in overall higher biomass per pond
- Overall, higher survival and feeding rates equates to more shrimp and larger shrimp at harvest. This all supports gains in on-farm profits



TROUT IMMUNE RESPONSE

- Trout laboratory challenges for Infectious Hematopoietic Necrosis Virus (IHNV), Flavobacterium psychrophilum (Fp), or IHNV-Fp combination
- Results showed that after 30 days of feeding Vpak
 - Higher disease challenge survivability to bacterial and viral pathogens



OVERALL CONCLUSIONS

- Laboratory challenges indicate that Vpak resulted in improved immune system function without compromising growth performance
- Feeding Vpak results in high animal performance, and significantly improved survival
- Vpak is a vital addition to any integrated farm health management plan
 - Effectively keeps animals on feed longer
 - Harvest more and larger animals
 - Improve on-farm profits

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