



# Finfish Vitality Pak (Vpak™)

Zeigler Vpak™ is an all-natural, highly purified, nutritional additive that has been shown to improve survivability and production yields in cultured species. Both field and laboratory trials have demonstrated increased disease resistance when animals were fed diets supplemented with Vpak™ which contains no antibiotics. Vpak™ is added to select standard diets and can be included in any custom run at the customer's request.

## Features & Benefits

- Observed improvement in survivals & production yields.
- All-natural alternative to antibiotics.
- Proactive mechanism for fighting viruses and pathogens.
- Optimal dose/response inclusion level for finfish.
- Inclusion in starter feeds reported to improve survivals in grow-out.
- Safe, biodegradable and residue-free; no antibiotics.

## Product Application & Technical Reports

- Application Rate is 0.125% or 1.25 kg per metric ton of feed (2.5 lbs. per short ton of feed).
- Add at mixing after volume ingredients have been added. Mix 1.5 times normal mix cycle.
- Feed for 2-3 weeks prior to stressful handling events and disease-prone periods.
- Demonstrated enhanced neutrophil function, macrophage production and leukocyte production in species fed Vpak™.
- Demonstrated increased resistance of Atlantic salmon to amoebic gill disease.
- Demonstrated increased resistance of rainbow trout to strawberry disease.
- Demonstrated increased resistance of carp to *Aeromonas hydrophila*.
- Demonstrated improved coloration and fin condition in tropical fish.

## Guaranteed Analysis

Crude Protein	Minimum	20%
Crude Fat	Minimum	6%
Crude Fiber	Maximum	6%
Moisture	Maximum	10%
Ash	Maximum	8%

## Ingredients

This product contains processed grain by-products, marine products, plant protein products, stable vitamin C, carotenoid pigments and preservatives.



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