



PROGEN-S is a functional fermented soybean meal which is suitable for replacing Fishmeal. Composed with Essential Amino Acid, Vit B Complex and Mineral Chelate. Synergy with Fermented Soya Protein which antigen (allergen) is broken down by biotechnology fermentation, creating low antigen soya protein which can give both functional and economical benefits.

Composition profile

Crude Protein	min.	49.00 %
Crude Fat	max.	4.00 %
Crude Fiber	max.	5.00 %
Ash	max.	8.00 %
Moisture	max.	12.00 %
Calcium		0.25 %
Phosphorus		0.80 %
Salt		0.85 %

Mineral profile

Copper (Cu)	102.203	mg/kg
Cobalt (Co)	102.78	mg/kg
Calcium (Ca)	110.00	mg/kg
Iron (Fe)	119.198	mg/kg
Manganese (Mn)	97.027	mg/kg
Magnesium (Mg)	70.90	mg/kg
Nickel (Ni)	61.044	mg/kg
Zinc (Zn)	330.369	mg/kg

Amino Acid profile

Lysine	2.95 %	Valine	2.58 %
Methionine	0.60 %	Histidine	1.42 %
Cystine	0.60 %	Arginine	3.85 %
Threonine	1.96 %	Alanine	2.90 %
Leucine	3.82 %	Serine	3.32 %
Isoleucine	2.35 %	Glycine	3.07 %
Phenylalanine	2.56 %	Proline	2.67 %
Tryptophan	0.73 %	Tyrosine	2.12 %

Antinutritional Factor Analysis

Trypsin inhibitors	<2 mg/g
Glycine	<100 ppm
B-conglycinin	< 10 ppm
Lectin	< 1 ppm

Usage

Shrimp	10-25% in feed formula
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Gross Energy (GE)	4,315 kcal/kg
DEs (shrimp)	3,291 kcal/kg
MEs (shrimp)	2,796 kcal/kg
DEs (fish)	3,291 kcal/kg
MEs (fish)	2,700 kcal/kg

Lactic acid	4.0 - 5.0%
pH	4.5 – 5.0
Nucleotide from Yeast Extract	
Digestibility	95 - 98%
(in Vitro, Pepsin-Pancreatin method)	
Particle size: 95% (Particle size 100-500 micron)	

Appearance	Yellow-brown powder
Package	PP woven bag laminated with paper
Shelf Life	Min. 12 months when stored dry and cool in unopened bag

