



**PROGEN** is a functional fermented soybean meal. 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 %

<b>Gross Energy (GE)</b>	4,315 kcal/kg
<b>DEs (swine)</b>	3,750 kcal/kg
<b>MEs (swine)</b>	3,372 kcal/kg
<b>NEs (swine)</b>	2,150 kcal/kg
<b>MEs (poultry)</b>	2,490 kcal/kg

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

<b>Appearance</b>	Yellow-brown powder
<b>Package</b>	PP woven bag laminated with paper
<b>Shelf Life</b>	Min. 6 months when stored dry and cool in unopened bag

### Mineral profile

Copper (Cu)	96.959	mg/kg
Iron (Fe)	120.987	mg/kg
Magnesium (Mg)	3119.741	mg/kg
Manganese (Mn)	89.432	mg/kg
Zinc (Zn)	286.640	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

Swine	10-25% in feed formula
Poultry	10-25% in feed formula
Fish	10-25% in feed formula