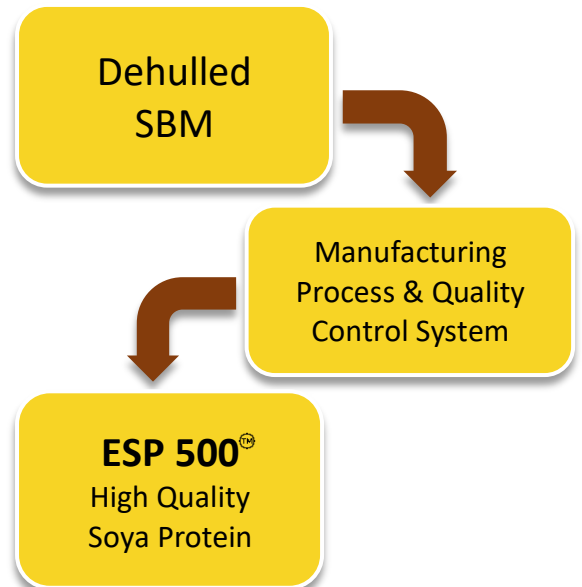




Fermentation Soya Protein is biotechnology fermentation process of dehulled soy bean meal by *Lactobacillus acidophilus*. This process is the know-how biotechnology to digest protein structure into smaller molecular weight, increase digestion and absorption efficiency. It also breaks down and reduces antigens (allergens) or anti-nutrient substances by fermentation.

ESP 500 is a high-quality soya protein source for animals. Evershining focuses on the use of protein source in animal feed by replacing fish meal, skim milk, milk replacer and Soy Protein Concentrate (SPC). Fermented soy protein can be used in the various kinds of feeds, such as, pig feed, fish feed and shrimp feed etc.



Usage

Piglet	10-20 %	Poultry	2.5-10 %
Starter pig	10-15 %	Shrimp	10-15 %
Cattle	5-10 %	Fish	5-15 %

Advantages

- Very Low Antigen
- Excellence Probiotic (*Lactobacillus acidophilus*)
- Elimination of Indigestible Sugar (Oligosaccharides)
- High Absorbability (Small particle nutrient)
- Rich in Vitamins & UGF
- Fancy Palatability
- Best Acidifier (Lactic acid)

ES

Evershining

Feed Ingredient

ESP 500TM

Composition profile

Crude Protein	min.	50.00 %
Crude Fat	max.	4.00 %
Crude Fiber	max.	5.00 %
Ash	max.	8.00 %
Moisture	max.	12.00 %
Non-nitrogen extract		27.60 %
Calcium		0.25 %
Phosphorus		0.80 % (Available P 0.2 %)
Salt	max.	0.10 %

Amino Acid profile

Lysine	2.90 %	Valine	2.40 %
Methionine	0.78 %	Histidine	1.45 %
Cystine	0.55 %	Arginine	3.48 %
Threonine	1.98 %	Alanine	2.30 %
Leucine	3.70 %	Serine	2.60 %
Isoleucine	2.10 %	Glycine	2.15 %
Phenylalanine	2.60 %	Proline	2.40 %
Tryptophan	0.60 %	Tyrosine	1.70 %
Aspartic acid	5.56 %	Glutamic acid	9.25 %

Appearance

Yellow-brown powder

Package

Laminated PP woven bag (25, 50kg)

Storage

Store in dry & cool (room temp.) in closed package

Shelf Life

Min. 12 months when stored dry and cool in unopened bag

Microbial/Contamination

E.coli	< 10 cfu/g
Salmonella spp.	Negative/25g
Melamine Compound	Not detected

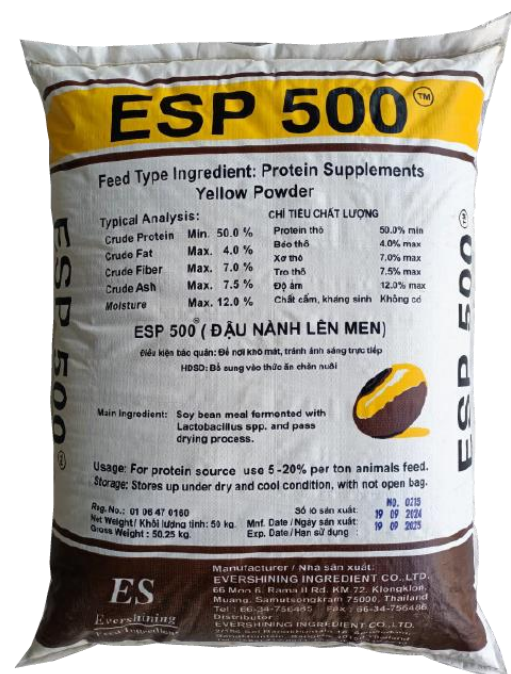
✓ Certified GHP, HACCP, GMP+
✓ Certified ISO 9001:2015



Gross Energy (GE)	4,315 kcal/kg
DEs (swine)	3,750 kcal/kg
MEs (swine)	3,400 kcal/kg
NEs (swine)	2,150 kcal/kg
MEs (poultry)	2,510 kcal/kg
Lactic acid	4.5-5.0 %
Citric acid	2.0-2.5%
pH	4.5-5.0
Density	0.75-0.85
Digestibility	90 - 95%
(in Vitro, Pepsin-Pancreatin method)	
Particle size: 95%	(100-500 micron)

Antinutritional Factor Analysis

Trypsin inhibitors	< 2 mg/g
Urease Activity	0.01 (ΔpH Index)
Glycinin	< 5 mg/g
B-conglycinin	< 2 mg/g
Lectin	< 2 ppm
Oligosaccharide	< 1%



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