

PSG (PepSoyGen)

-Fermented Soybean Meal



Features

- Solid State Fermentation
- Easily digestible and absorbable
- Reduced anti-nutritional factors
- High enzyme activity
- Low molecular peptides and water-soluble proteins

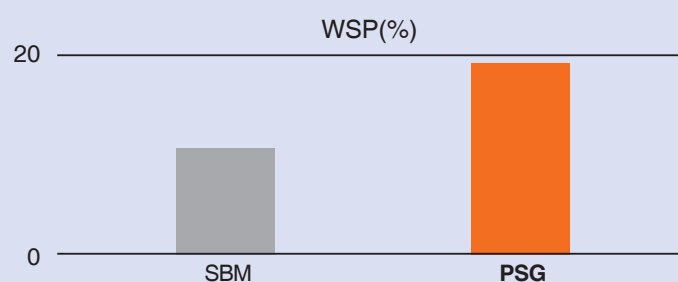
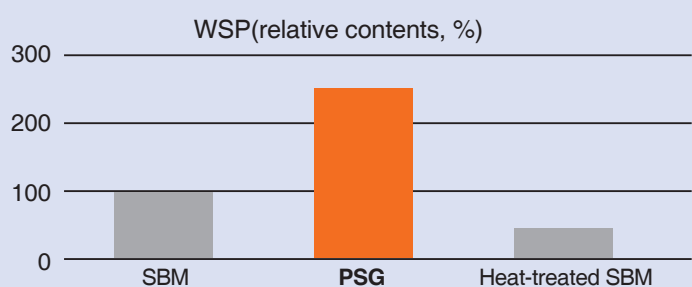
Remarks

- Produced by SMPT technology of Genebiotech Co., Ltd.
- High quality protein (PDI-19.48%, KOH solubility-76.18%)
- Minimize of anti-nutritional factors such as α -galactocides and trypsin inhibitor
- Maximized Digestive enzyme activity
- Packaging : Paper bag 25kg / Big bag 1 M/T

Advantage of PSG

Analysis Item	Unit	Soybean Meal	Pepsoygen
CP (Crude Protein)	%	45~47	52~54
Moisture	%	11~12	7~8
TI (Trypsin Inhibitor)	mg/g	3~4	1~2
Stachyose	%	1.8~4.0	0.08~0.75
Raffinose	%	0.3~1.0	0.05~0.70
KOH Solubility	%	70.0~85.0	67~71
WSP (Water Soluble Protein)	%	8~9	17~19

Water soluble protein content



■ Characteristics of water-soluble proteins

- High digestibility in the small intestine
- Easily degraded by proteases
- Absorbed through phagocytosis

- PepSoyGen contains a higher amount of water-soluble proteins than other protein sources.
- Amino acids and low-molecular-weight peptides are generally water-soluble and are effectively absorbed in the gut without further digestion.

Other advantages

1. Higher digestibility
2. Improve immune system
3. Improved enzyme (Protease, amylase) and anti-microbial activity

PSG fermentation strains & characteristics

<i>Aspergillus oryzae</i>	<i>Bacillus subtilis</i>
Enzyme production	Enzyme production
Inhibition of harmful bacteria	Favor enhancement
Breakdown of protein into peptides and amino acids	Reduction of carcinogens
	Anti-microbial activity against pathogens

Recommended dosage

Animal	Dosage
Fish	2~15% of feed (20~150kg/MT feed)
Chicken	Broiler 3~5%*

* If the price is a limiting factor for the consumers, it should be noted the following:

1. The return of investment is high due to higher digestible protein compared to other protein sources including SBM and it can be calculated accordingly given the level of consumption in the ration.
2. The consumption can be limited to the first 10 days of starter or in critical stage where the higher growth and health of the chicken are targeted.

*Note: For the full data on the product, please refer to the detailed materials.