

SHRIMP

X-SOY 200 is CJ Selecta's micronized soy protein concentrate. It is an innovative vegetable protein, with high quality, widely used as a functional ingredient for aqua feeds, piglets feeds, starter chickens diets, pet food and calf milk replacers.

Our micronization process assures an efficient surface area:volume ratio, improving X-SOY 200 nutrients digestibility, becoming a strategic feedstuff for larval nutrition and juvenile diets.

Chemical Composition

Crude protein (DM)	65%
Crude protein (as is)	60%
Moisture (max)	10%
Fat (min)	0.4%
Ash (max)	7%
Crude fiber (max)	6%
NDF	12%
ADF	7%

Antinutritional Factors (ANF)

Trypsin inhibitor activity	< 1.00 mg/kg
Beta-conglycinin	< 3.0 mg/kg
Glycinin	< 2.0 mg/kg
Raffinose	< 0.6%
Stachyose	< 1.6%

Contaminants

Salmonella	Absent/25g
Mycotoxins	Absent
Dioxin	Absent

Packaging

Bags	25 kg
Bigbags	1000 & 1200 kg

Shelf life

24 months

Particle size

95% < 180 microns

Storage

Store on pallets in a covered, dry and ventilated place

Energy

Gross energy ⁽¹⁾	4471 kcal/kg
Digestible energy ⁽³⁾	3800 kcal/kg

Protein

Apparent digestibility coefficient	94% ⁽²⁾
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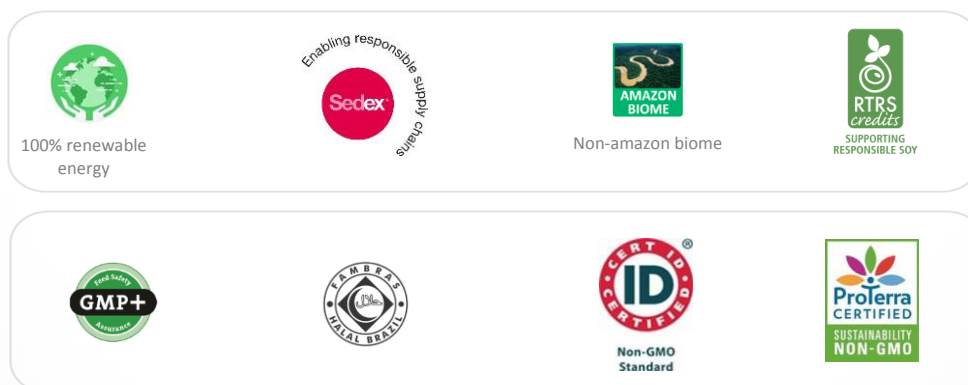
Amino acids

	Total (%) ⁽¹⁾	Digestible (%) ⁽²⁾
Alanine	2.68	
Arginine	4.59	4.40
Aspartic acid	7.02	
Glutamic acid	11.27	
Cystin	0.92	
Phenylalanine	3.18	2.89
Glycin	2.60	
Histidine	1.67	1.54
Isoleucine	2.79	2.54
Leucine	4.68	4.16
Lysine	3.87	3.64
Methionine	0.85	0.80
Prolin	3.14	
Serine	3.52	
Tyrosin	2.35	
Threonine	2.47	2.17
Tryptophan	0.81	
Valine	3.01	2.71
Met + Cys	1.77	
Phe + Tyr	5.53	
Gly + Ser	6.12	



Fatty acids	g/100g	Minerals ⁽¹⁾	g/100g
Palmitic acid C16:0	0.31	Calcium	0.40
Stearic acid C18:0	0.08	Total phosphorous	0.73
Elaidic acid C18:1 n-9	0.40	Phytic phosphorous	0.45
Linoleic acid C18:2 n-6	0.91	Available phosphorous	0.27
		Potassium	2.18
Total neutral lipids	1.208	Sodium	0.02
Glycolipid 3	0.102	Magnesium	0.29
Glycolipid 2	0.035		mg/kg
Glycolipid 1	0.010	Manganese	38.3
Phosphatidylethanolamine	0.190	Iron	150
Phosphatidylglycerol/cardiolipin	0.027	Copper	32.6
Phosphatidylinositol	0.101	Zinc	24
Phosphatidylserine	0.034		
Phosphatidylcholine	0.150	Vitamins	mg/kg
Sphingomyelin	0.008	Biotin	0.26
Lysophosphatidylcholine	0.008	Choline	2.61
Pigmented material	0.132	Folacin	0.60
Total polar lipids	0.797	Nacin	28.0
		Pantothenic acid	16.3
Suggested inclusion levels		Vitamin B6	6.00
Shrimp	from 6%	Riboflavin	2.90
		Thiamin	6.0
		Vitamin E	2.40

X-SOY 200 is produced through an aqueous alcohol extraction of defatted soy flakes. This extraction process removes soluble carbohydrate, lectins, trypsin inhibitors, glycinin, beta-conglycinin, saponins and oligosaccharides that are considered to be antinutritional factors (ANF's) that naturally occurs in soybeans.



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REVISED IN: FEBRUARY/2018

¹ ROSTAGNO, H.S. ET AL. BRAZILIAN TABLES FOR POULTRY AND SWINE. 4TH ED. VIÇOSA: DEPARTAMENTO DE ZOOTECNIA, UFV, 2017

² CORRECTION FACTOR - CJ SELECTA TECHNICAL REPORT. IN VITRO PROTEIN DIGESTION OF FEED INGREDIENTS WITH SPECIES-SPECIFIC DIGESTIVE ENZYMES: WHITELEG SHRIMP AND RAINBOW TROUT. 2017

³ CRUZ-SUARÉZ, L.E. ET AL. APPARENT DRY MATTER, ENERGY, PROTEIN AND AMINOACID DIGESTIBILITY FOR FOUR SOYBEAN INGREDIENTS IN WHITE SHRIMP *LITOPENAEUS VANNAMEI* JUVENILES. AQUACULTURE (2009), DOI: [10.1016/j.aquaculture.2009.03.026](https://doi.org/10.1016/j.aquaculture.2009.03.026)