

**FISH**

*X-SOY 600 is CJ Selecta's 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.*

*CJ Selecta's X-SOY 600 has low allergenic proteins and antinutritional factors content, affecting positively animals performance.*

**Chemical Composition**

Crude protein (DM)	65%
Crude protein (as is)	60%
Moisture (max)	10%
Fat (min)	0.4%
Ash (max)	7%
Crude fiber (max)	5%
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
Bulk	

**Shelf life** 24 months

**Particle size** 2 mm

**Storage**

Store on pallets in a covered, dry and ventilated place

**Energy**

Gross energy <sup>(1)</sup>	4471 kcal/kg
Digestible energy <sup>(2)</sup>	2984 kcal/kg

**Protein**

Apparent digestibility coefficient <sup>(1)</sup> 90%

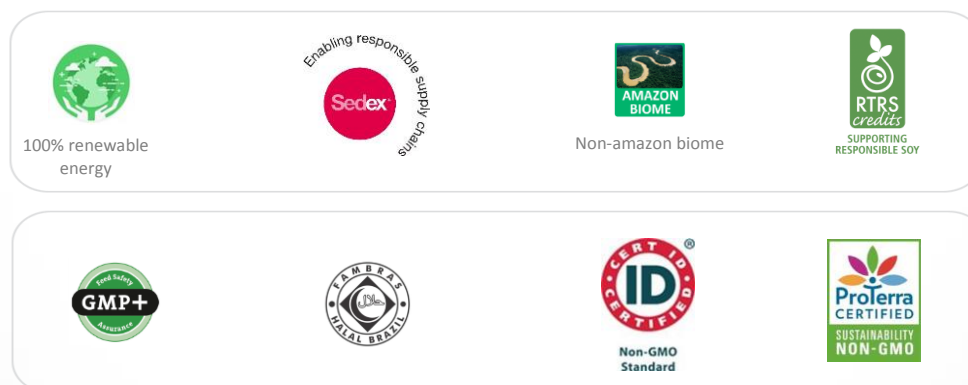
**Amino acids**

	Total (%) <sup>(1)</sup>	Digestible (%) <sup>(2)</sup>
Alanine	2.68	2.49
Arginine	4.59	4.55
Aspartic acid	7.02	5.90
Glutamic acid	11.27	10.48
Cystin	0.92	
Phenylalanine	3.18	2.73
Glycin	2.60	2.19
Histidine	1.67	1.53
Isoleucine	2.79	2.63
Leucine	4.68	4.49
Lysine	3.87	3.63
Methionine	0.85	0.83
Prolin	3.14	2.86
Serine	3.52	3.28
Tyrosin	2.35	2.31
Threonine	2.47	2.17
Tryptophan	0.81	
Valine	3.01	2.80
Met + Cys	1.77	
Phe + Tyr	5.53	5.04
Gly + Ser	6.12	5.46



Fatty acids	g/100g	Minerals <sup>(1)</sup>	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		<b>mg/kg</b>
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	<b>Vitamins</b>	<b>mg/kg</b>
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
<b>Suggested inclusion levels</b>		Vitamin B6	6.00
Poultry	3 to 9%	Riboflavin	2.90
		Thiamin	6.0
		Vitamin E	2.40

X-SOY 600 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

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

<sup>2</sup> BARROWS, F.T.; GAYLORD, T.G.; SEALEY, W.; RAWLES, S.D. DATABASE OF NUTRIENT DIGESTIBILITY 'S OF TRADITIONAL AND NOVEL FEED INGREDIENTS FOR TROUT AND HYBRID STRIPED BASS. AVAILABLE: <https://www.ars.usda.gov/pacific-west-area/aberdeen-id/small-grains-and-potato-germplasm-research/docs/fish-ingredient-database> (FEBRUARY 2018)