

Essential nutrients for healthy animals





Environmental and Nutritional Benefits

X-SOY 600 IS HIGHLY SAFE PROTEIN SOURCE, IDEAL FOR SUSTAINABLE FISH FARMING, REDUCED ANTINUTRITIONAL AND ALLERGENIC FACTORS CONTRIBUTE FOR A BETTER FISH PERFORMANCE AND TO AN ECO-FRIENDLY FISH FARMING.

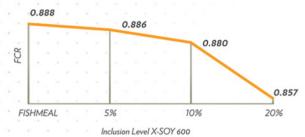
- RENEWABLE PROTEIN SOURCE
- STEADY SUPPLY

- RELIABLE INGREDIENT
- ECO-FRIENDLY

PERFORMANCE TRIALS

ATLANTIC SALMON

Feed conversion rate in Atlantic Salmon fed with increasing levels of X-SOY 600.



- lest conditions:

 * initial body weight 64 ±1.6g. 100 fish/tank in freshwater recirculating system at 14°C.

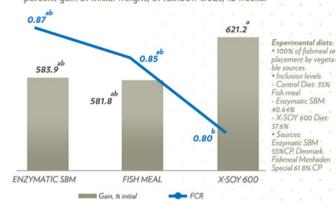
 *Experimental diets formulated to meet Atlantic salmon requirements (NRC, 2011).

 *Diets with fixed levels of fishmeal and poultry byproduct meal (15% and 20%, respectively).

 *X-SOY 600 replaced partially corn gluten meal, wheat gluten meal and corn protein concentry.

RAINBOW TROUT

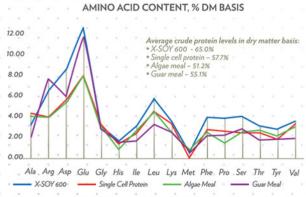
The effect of primary protein source on feed conversion ratio (FCR), percent gain of initial weight, of rainbow trout; 12 weeks.



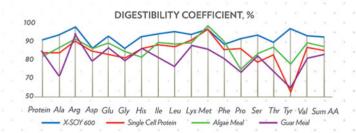
Model F- value: FCR: P>0.001; r2=0.7. Gain P>0.03; r2=0.56.

AMINO ACID PROFILE & DIGESTIBILITY 1

Comparative of amino acid profile of innovative protein sources available for aquafeeds



Digestibility coefficient of Crude Protein & Amino acids in Rainbow trout (Oncorhynchus mykiss)



Protein (CP)	Amino acids	Total %	Digestibility, %	Energy Kcal/kg
CP (dry matter) 65%	Lysine	3.87	94	Gross
CP (as is) 60%	Methionine	0.85	97	Digestible 2984
CP (digestibility) 90%	Alanine	2.68	93	
	Threonine	2.47	88	Minerals
	. Histidine	1.67	92	Ca 0.40 .
	Arginine	4.59	99	Total P 0.73
	Valine	3.01	93	Available P 0.27

¹ Source: Database of Nutrient Digestibility's of Traditional and Novel Feed Ingredients for Trout and Hybrid Striped Bass. This is a collaborative project among: USDA-Agricultural Research Service National Program. Spreadsheet version 2017.

