

Amizate® CLASSIC - Product Profile



Amizate® is a unique new product manufactured from a fresh marine protein source (Atlantic salmon) in a modern food grade production facility.

Zymtech's proprietary enzymatic production process mimics the digestive systems of organic life to give a unique product consisting of exclusively **natural amino acids, short peptides, and micronutrients.**

Amizate® has exceptional nutritional value and contains all components necessary for protein synthesis and support of vital metabolic functions.

Amizate® has a **balanced amino acid composition**, which is also characteristic of human tissue. The amino acid content of Amizate® is approximately **75%**. The amino acids are present in free form (60% or more), and as short peptides (molecular size less than **560 Dalton**).

Amizate® is intended for use as a nutritional supplement and is not a Novel Food under the European Novel Food Regulation. It is supplied as a dry powder with a light yellow colour.

Amino acids & peptides

Total Nitrogen (TN)	12 %
Amino acid bound nitrogen (AN)	7 %
Degree of hydrolysis=AN/TN	60 %
Total amino acids (free form & peptides)	75 %

Typical profile of amino acids

(Method: 98/64/EC)

Amino acid (g/kg)	Total	Free
Alanine	52	40
Arginine**	38	30
Aspartic acid & Asparagine	60	22
Cystine & cysteine (as cysteic acid)	5	3
Glutamic acid & Glutamine	91	42
Glycine	56	24
Histidine**	16	12
Hydroxyproline	4	na
Isoleucine*+	31	24
Leucine*+	55	46
Lysine*	53	39
Methionine*	19	17
Phenylalanine*	29	23
Proline	34	7
Serine	29	20
Threonine*	31	30
Thyroxin (mg/kg)	3	na
Tryptophan*	8	3
Tyrosine	25	20
Taurine ¹	20	20
Valine*+	41	34

* essential amino acid

** essential amino acid for children

+ branched-chain amino acid

¹ latest production 2014

na not available

Important micronutrients

	Amount	Unit
Iron (Fe)	86	mg/kg
Zinc (Zn)	1790 ¹	mg/kg
Iodine (I)	2	mg/kg
Vitamin B1 Thiamine	< 2.4	mg/kg
Vitamin B2 Riboflavin	2.1	mg/kg
Vitamin B3 Niacin	42	mg/kg
Vitamin B6 Pyridoxine	6.7	mg/kg
Vitamin B9 Folic acid	1.9	mg/kg
Vitamin B12	1.6	mg/kg
Vitamin C	570	mg/kg

Other micronutrients / minerals

	Amount	Unit
Calcium (Ca)	147	mg/kg
Chloride (Cl ⁻)	2	%
Magnesium (Mg)	170	mg/kg
Nitrogen (N)	12	%
Phosphorus (P)	9.3	g/kg
Potassium (K)	78 ¹	g/kg
Selenium (Se)	6.6	mg/kg
Sodium (Na)	10 ¹	g/kg

Other product characteristics

	Value	Unit
Inorganic material (ash)	15	%
Moisture	3	%
Fat	1	%
Carbohydrates	2	%
Calories	396	Kcal/100g
Insolubility index (H ₂ O)	<< 2	(ISO 8156)
pH (0.25% in water)	8	pH

This data is provided for informational purposes only. The values given in this product profile are generated using a limited number of samples. Zymtech Production AS gives no guarantee that these values will accurately reflect the values of individual lots.

Zymtech Production AS – Jakup B. Klugstads veg 16 - 2665 Lesja - Norway

Phone+47 6124 3560 Fax +47 6124 3561

Organisasjonsnummer 978 716 342 MVA / Fiskebruksnummer A52

www.zymtech.no