

SEA SOLUTIONS

WELL-BEING

NUTRIPEPTINTM

Glycemic Index reducing Marine Peptide





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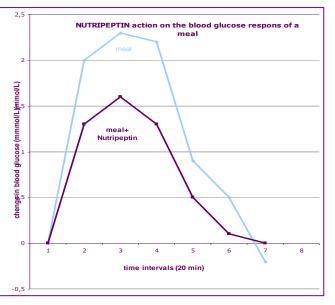
NUTRIPEPTIN[™] is a marine protein hydrolysate extracted by enzymatic hydrolysis of fresh lean fish by-products. The nutritional properties of fish protein have been widely researched. Numerous studies have shown its superiority over most other proteins.

As a glycemic index reducing peptide, NUTRIPEPTIN[™] represents a natural mean to fight against the increasing number of overweight people and health disorders that are linked to it.

• NUTRIPEPTIN™ GI-REDUCING PROVEN PROPERTIES

Clinical studies have shown that NUTRIPEPTIN has a positive functional effect on post-prandial blood glucose levels.

A supplementation of 1 to 2% of NUTRIPEPTIN[™] gives significant GI-lowering functionality (**GI reduction of 30 to 50%**) to ordinary foodstuffs like ice cream, chocolate, white bread, fruit juices, hamburgers, and many other high GI products.



RECOMMENDED FOR WEIGHT MANAGEMENT AND ENERGY RESTITUTION

Health authorities in most Western countries are seeking for ways to reduce the intake of foods with a high glycemic index, a proven major cause of obesity. The GI-lowering effect of NUTRIPEPTIN[™] makes it an ideal natural mean to help prevent disorders linked to unhealthy life styles that may lead to diabetes and cardiovascular problems.

Its action is also interesting for the fast restitution of the energy towards the muscular cells.



Luce Sergent, Sustainable Development Manager







- TECHNICAL INFORMATION -

SPECIFICATIONS (guaranteed for each batch)		
	Specification	Test method
Appearance	fine creamy powder	Internal
Proteins	> 80% on crude product	NF V 04-407 / dir.93/28/CEE
Moisture	< 7% on crude product	NF V 04-401 / dir.71/393/CE
Ashes	< 15% on crude product	NF V 04-404 / dir.71/250/CE

• Standard amino acid distribution (mg/g)

Regularly checked according to a periodic control plan

Aspartic acid Hydroxyproline Glycine Taurine Threonine Proline Valine Isoleucine Phenylalanine Tryptophane	96.2 4.8 48.3 10.1 37.0 30.9 40.5 36.4 27.1 5.5		Glutamic acid Serine Histidine Arginine Alanine Tyrosine Methionine Leucine Lysine	157.8 42.4 24.8 56.9 63.2 25.4 27.2 76.2 92.5
Total amino acids Essential amino acids (E Non-essential amino acid EAA/NEAA	,	888 367 521 0.7		

• SOLUBILITY

soluble in water

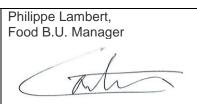
• ENERGY VALUE

320 kcal/100g

• STORAGE

Packaging20kg bag in boxShelf life24 monthsStore in a dry area and keep away from light.Make sure the bag is closed air-tightly once it has been opened.Don't keep the solubilized product over 65°C or under 4°C more than 24 hours without any stabilizing agent.





- REGULATION DATA - the data below have value of certificate

• COMPOSITION

Compound	Source	CAS #	EC #	Added quantity (% on dry matter)
Protein hydrolyzates, fish*	FAO 27 fishing area	91079-91-3	293-481-3	/
Flavour**	Identical to natural and natural	/	/	0.15

*Main fish species: Cod (*Gadus morhua*), Saithe (*Pollachius virens*), Haddock (*Melanogrammus aeglefinus*) and Plaice (*Pleuronectes platessa*)

**Complies with Regulation (EC) No 1334/2008

Flavouring components:	flavouring substances, natural flavouring substances
Carrier:	maltodextrin
Additives:	anti-caking agent E504 (3.5%)

• LEGAL STATUS

Food grade product intended to be used in food products and food supplements. Produced in accordance with Regulation (EC) No 852/2004 and No 853/2004 on the hygiene of foodstuffs, with sanitary approval number FR 62 667 125 CEE.

• BSE/TSE

Is based on fish raw material only and cannot be affected by BSE/TSE. Is not manufactured with any BSE-related risk material from bovine, ovine or caprine species, as defined in decision 2000/418/EEC and regulation 999/2001 and its amendments.

• GMO According to European Regulations n°1829/2003 and 1830/2003

Is free from ingredients, additives, processing aids made of or derived from GMO.

RESTRICTED SUBSTANCES

Does not contain any of the CMR substances as defined in Regulation (EC) No 1907/2006 and Regulation (EC) No 1223/2009 (article 15).

Does not contain any other SVHC (PBTs and vPvBs) in accordance with Regulation (EC) No 1907/2006. Does not fall into the scope of Regulation (EC) No 1272/2008.

• **PESTICIDES**

Does not contain pesticides in accordance with Regulation (EC) No 396/2005. MRIs (maximum residue levels of pesticides) are not applicable to fish products.

• HAZARDOUS SUBSTANCES Regularly checked according to a periodic control plan

Complies with Regulation (EC) No 1881/2006 and its amendments

	Specification	Test method
Lead	Max. 3 ppm	mineralization + ICP-MS
Cadmium	Max. 1 ppm	mineralization + ICP-MS
Mercury	Max. 0.1ppm	mineralization + ICP-MS

Luce Sergent, Sustainable Development Manager



Philippe Lambert, Food B.U. Manager

Test method

High resolution GC/MS High resolution GC/MS Ma

mineralization + ICP-MS

MICROBIOLOGICAL DATA Guaranteed for each batch

	Specification	Test method	
Total plate count	Max. 10,000 CFU/g	Petrifilm 3 M	
Enterobacteriaceae	Max. 10 CFU/g	AFNOR V08-054	
Staphylococcus aureus	Absent / 1g	European Pharmacopoeia	
E.coli	Absent / 1g	European Pharmacopoeia	
Yeasts and moulds	Max. 100 ČFU/g	AFNOR XP V08-059	
Salmonella	Absent / 25g	Mini VIDAS easy SLM bio	

IRRADIATION complies with Regulations (EC) n° 1999/2 and 1999/3 •

Is not irradiated.

Is free from ingredients, additives, processing aids made with the help of irradiation system or exposed to atomic radiation.

SOLVENT complies with consolidated version of European Directive 2009/32 •

Is free from processing made with the help of solvent apart from water. Is free from VOCs (volatile organic compounds) in accordance with Regulation (EC) No 1999/13 on the limitation of emissions of volatile organic compounds due to the use of organic solvents.

ALLERGENS Complies with Regulations (EC) n° 1169/2011, Annex II

Main allergens	Presence in the product	Cross- contamination
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre in terms of the total SO2	NO	NO
Peanut and products thereof	NO	NO
Nuts, namely: almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachio nut, macadamia or Queensland nuts, and products thereof	NO	NO
Eggs and products thereof	NO	NO
Fish and products thereof	FISH 100%	YES
Molluscs and products thereof	NO	YES
Crustaceans and products thereof	NO	YES
Soybeans and products thereof	NO	NO
Cereals containing gluten, namely: wheat, rye, barley, oats, spelt, kamut or their hybridised strains, and products thereof	NO	NO
Milk and products thereof (including lactose)	NO	NO
Sesame seed and derived products	NO	NO
Lupin and products thereof	NO	NO
Celery and products thereof	NO	NO
Mustard and products thereof	NO	NO



Dioxins

Specification

Max. 3.5 pg/g (on fresh fish) Sum of dioxins and dioxin-like PCBs Max. 6.5 pg/g (on fresh fish) Sum of PCB28, PCB52, PCB101, Max. 75 ng/g PCB138, PCB153 and PCB180

Inorganic arsenic Melamine

Xavier Klamka,

Quality Manager

Max. 1ppm Max. 2.5 ppm