



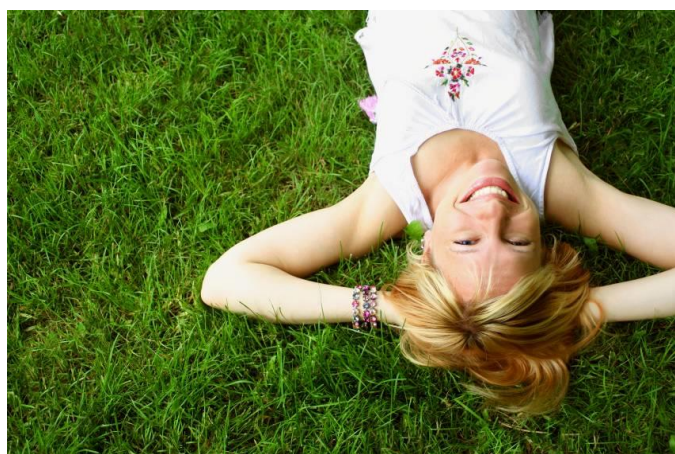
SEA SOLUTIONS

BIEN ÊTRE

WELL-BEING

# PROTIZEN

*Anti stress marine peptide*



**PROTIZEN** is a marine peptide extracted by a biological process based on enzymatic hydrolysis and different refining steps in order to select low molecular weight polypeptides.

In vivo studies have been carried out to show the relaxing properties of **PROTIZEN**.

## - PROPERTIES -

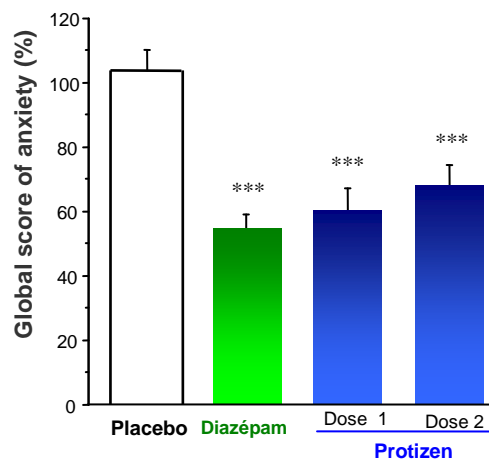
### • PROTIZEN BENEFITS

- Anxiolytic-like relaxing effect
- No side effect, safe and natural
- Food grade





### • INNOVATIVE BIOACTIVE PEPTIDE WITH PROVEN EFFICACY

PROTIZEN bioactive peptide has a relaxing effect comparable to that of the anxiolytics. It provides a natural feeling of well being while not lowering the attention.

PROTIZEN properties have been proven by several pre-clinical studies.



⇒ **PROTIZEN** is a safe and efficient SEA SOLUTION® to fight against stress and its symptoms (work pressure, sleep troubles, weight disorders, concentration difficulties, mood troubles, etc...).

	Xavier Klamka, Quality Manager 	Luce Sergent Sustainable Development Manager 	Emmanuel Boucher, Production Manager 
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## - TECHNICAL INFORMATION -

- SPECIFICATIONS** (*guaranteed for each batch*)

	<b>Specification</b> ( <i>on crude product</i> )	<b>Test method</b>
<b>Appearance</b>	fine powder	Internal
<b>Proteins</b>	> 80%	NF V 04-407
<b>Moisture</b>	< 7%	NF V 04-401
<b>Ashes</b>	7 - 13%	NF V 04-404
<b>pH</b>	5.5 - 7.5	internal

- Standard amino acid distribution (mg/g)**

*Regularly checked according to a periodic control plan*

	<b>Mean Value</b>	<b>Std dev</b>		<b>Mean Value</b>	<b>Std dev</b>
Taurine	1.59	0.24	Methionine	1.84	0.08
Aspartic acid	8.08	0.23	Isoleucine	2.59	0.14
Threonine	3.40	0.10	Leucine	4.98	0.22
Serine	4.56	0.09	Tyrosine	1.63	0.15
Glutamic acid	12.89	0.31	Phenylalanine	2.31	0.09
Glycine	10.32	0.34	Lysine	6.26	0.28
Alanine	6.30	0.14	Histidine	1.34	0.06
Valine	3.14	0.17	Arginine	5.69	0.15
Proline	5.61	0.18	Tryptophane	0.31	0.02
Cysteine + Cystine	0.50	0.05			

- SOLUBILITY** soluble in water

- ENERGY VALUE** 350 kcal/100g

- STORAGE**




**Packaging** 20kg bag in box

**Shelf life** 24 months

Store 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.

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**- REGULATION DATA -** *the data below have value of certificate*

• **COMPOSITION**

Compound	Source	Added content	CAS #	EC #
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
<b>Lead</b>	Max. 3 ppm	mineralization + ICP-MS
<b>Cadmium</b>	Max. 1 ppm	mineralization + ICP-MS
<b>Mercury</b>	Max. 0.1ppm	mineralization + ICP-MS
<b>Dioxins</b>	Max. 3.5 pg/g (on fresh fish)	High resolution GC/MS
<b>Sum of dioxins and dioxin-like PCBs</b>	Max. 6.5 pg/g (on fresh fish)	High resolution GC/MS Ma
<b>Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180</b>	Max. 75 ng/g	
<b>Inorganic arsenic</b>	Max. 1ppm	mineralization + ICP-MS
<b>Melamine</b>	Max. 2.5 ppm	

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