



COLLECTIVE™

Marine Collagen & Elastin oligopeptides

Skin anti-ageing & Hydration



COLLECTIVE™ is composed of collagen and elastin oligopeptides in the same ratio as in the dermis (respectively 94% and 6% of the total proteins).

COLLECTIVE™ combines the two main constituents of the extracellular matrix and has an anti-wrinkle synergic action: elastin fibres give the dermis suppleness that completes collagen fibres tensile strength.

COLLECTIVE™ oligopeptides have a low molecular weight, making them soluble in aqueous phase and fully digestible. COLLECTIVE™ is ideal for nutricosmetics.

- PROPERTIES -

• COLLECTIVE™ REINFORCES SKIN HYDRATION

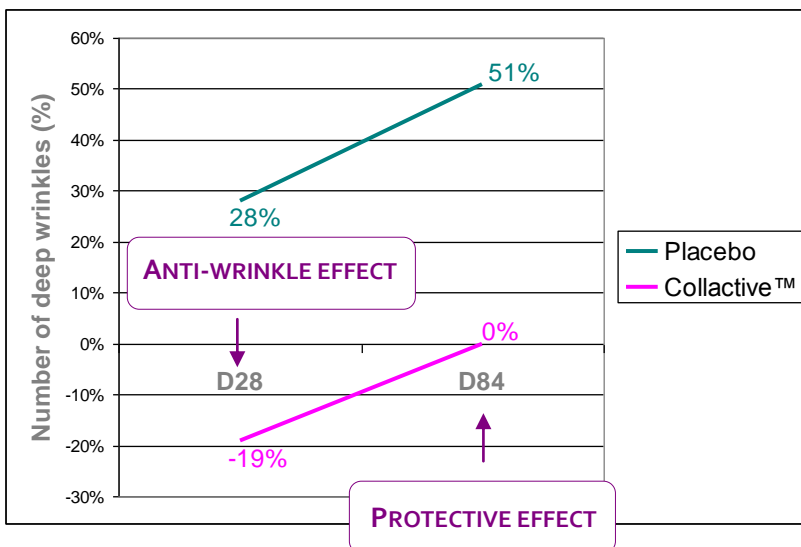
The moisturizing effect of COLLECTIVE™ is supported by a clinical study involving 44 women over 40 years old. The results show an increase of the entire epidermis hydration (+8%) after oral administration of COLLECTIVE™ for 3 months.




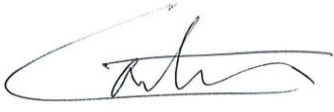
• COLLECTIVE™ HELPS MATURE SKIN BUILD LIFT AND FIRING CUSHION

COLLECTIVE™ collagen and elastin oligopeptides stimulate the biosynthesis of dermis main constituents to lift and tone slacking areas.

COLLECTIVE™ minimizes apparent lines and wrinkles as per the results of the clinical study (see graph).

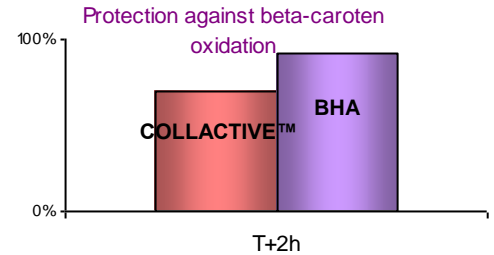
On D84, the skin was exposed to cold temperatures, which explain the weaker anti-wrinkle effect at this period. The results highlight the protective effect of COLLECTIVE™ against the harsh conditions in winter.



	<p>Nadège Hochart, Quality control manager</p> 	<p>Emmanuel Boucher, Production manager</p> 	<p>Philippe Lambert, Sales manager</p> 
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• COLLECTIVE™ IS A POTENT ANTIOXIDANT TO FIGHT AGAINST FREE RADICALS

COLLECTIVE™ has a full anti-ageing action with potent antioxidant properties: the structural constituents of the dermis are thus protected against environmental damage. COLLECTIVE™ antioxidant activity was also substantiated by ORAC test.



⇒ COLLECTIVE™ delays skin ageing process by protecting the skin and stimulating its main structural constituents.

- TECHNICAL INFORMATION -

• SPECIFICATIONS (guaranteed for each batch)

	Specification	Test method
Appearance	fine creamy powder	Internal
Proteins Kjeldhal	≥ 90% on crude product	NF V 04-407
Hydroxyproline	≥ 6% on dry matter	NF V 014-415
Moisture	≤ 10% on crude product	NF V 04-401
Ashes	≤ 7% on crude product	NF V 04-404
Bulk density	0.35 – 0.50	Internal
Tapped density	0.45 – 0.60	Internal
TVN	≤ 250mg/100g	Internal
pH (sol. 10%)	5.5 – 7.5	Internal

• **SOLUBILITY** soluble in water

• **ENERGY VALUE** 360 kcal/100g

• STORAGE




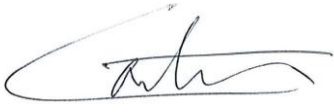
Packaging 20kg bag in box

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.

	Nadège Hochart, Quality control manager 	Emmanuel Boucher, Production manager 	Philippe Lambert, Sales manager 
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- REGULATION DATA - the data below have value of certificate

• COMPOSITION

Compound	Source	Incorporated quantity (% on dry matter)	CAS #	EC #
Protein hydrolyzates, fish* (fish skin)	**Fishing area: FAO 27	/	91079-91-3	293-481-3
Citric acid monohydrate***	Fermentation	1	5949-29-1	201-069-1
Flavour****	Identical to natural and natural	0.15	/	/

*of which 94% is *Collagens, hydrolyzates*
6% is *Elastins, hydrolyzates*

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

***Complies with Regulation (EC) No 231/2012

****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




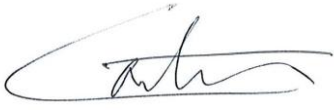
Does not contain pesticides in accordance with Regulation (EC) No 396/2005.

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

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Mercury

Max. 0.1ppm

mineralization + ICP-MS

Specification**Test method****Dioxins**

Max. 3.5 pg/g (on fresh fish)

High resolution GC/MS

Sum of dioxins and dioxin-like PCBs

Max. 6.5 pg/g (on fresh fish)

High resolution GC/MS Ma

Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180

Max. 75 ng/g

Inorganic arsenic

Max. 1ppm

mineralization + ICP-MS

Melamine

Max. 2.5 ppm

- 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

NF V 08-059

- 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