



OUR COMPANY

The oceans are fabulous sources of marine bioresources. Covering more than 70% of our planet, they are home to exceptional biodiversity. PhosphoTech Laboratory seeks to identify new molecules of interest from the sea. Understanding their function and cellular mechanisms is the key to develop innovative solutions for health, animal nutrition and new applications in marine biotechnology.

Drawing on 20 years' experience, we offer marine and natural ingredients with a sincere approach of sustainability. As a natural ingredients supplier, our commitment is to develop processes and products that are not only effective, but also safe and respectful.



BLUE BIOECONOMY
Valorisation of marine
by-products



INNOVATION

Development of health
bioactive marine
ingredients



SCIENCE Scientific research partnerships

HEALTH MARINE INGREDIENTS



SUMMARY

PAGE 4 OUR SPECIALITIES

PAGE 11 MARINE POWDERS

PAGE 15 ALGAE

PAGE 19 MARINE OIL POWDERS

PAGE 23 **FEED**



OUR SPECIALITIES



Cognitive health



Natural defenses



Joint well-being



Skin & Joints



Bone mass



Re-mineralization





LeciBrain™ is a natural ingredient resulting from the valorisation of marine by-products. Our innovative process allows us to produce a lipid extract rich in marine phospholipids (60%) and highly esterified in DHA.

LeciBrain™ contributes to good cognitive performances and plays a key role in memory and concentration.





SulfoBiolin™ is a natural ingredient extracted from algae. This ingredient is naturally concentrated in glycolipids and particularly sulfolipids, with a unique and specific structure.

SulfoBiolin™ helps to maintain natural defenses.







ChondroFLX™ is a marine origin formulation with proteins and minerals. It is made up of byproducts from the fishing industry.

ChondroFLX™ is an ingredient of choice against the natural aging of joints.





CollaSea™ is a marine collagen obtained by enzymatic hydrolysis derived from wild fish skins. What makes it special: it is neutral and odorless.

CollaSea[™] helps to maintain skin beauty and joint health.







OysterCal™ is an oyster shell powder. This ingredient is made from unused oyster shells, a renewable and sustainable material.

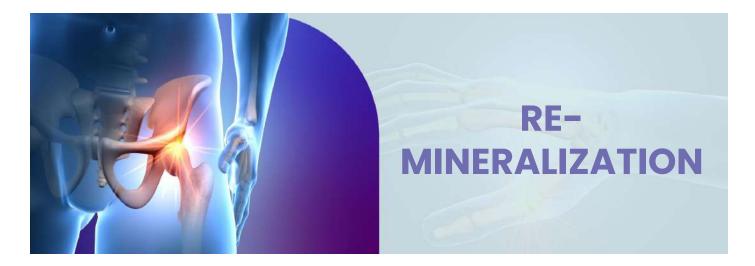
OysterCal™ provides calcium for mineralization and maintenance of bone mass.





CalciSepia™ is a cuttlefish bone powder. It is very rich in minerals (calcium). It comes from the valorization of marine by-products

CalciSepia™ helps remineralize bones and strengthen the skeleton.







PAGE 5 CHITOSAN

CUTTLEBONE

FISH BONE

PAGE 6 FISH MILT - MARINE NDA
HYDROXYAPATITE
MARINE CALCIUM

PAGE 7 MARINE CHONDROITIN SULFATE 90%

MARINE ELASTIN

MARINE MAGNESIUM

PAGE 8 MUSSEL MEAT

OYSTER MEAT (TAURINE)

OYSTER SHELL

SHARK CARTILAGE

SHARK CHONDROITIN
SULFATE 90%

SKATE CARTILAGE

PAGE 10 TYPE I MARINE COLLAGEN

TYPE II MARINE COLLAGEN

CHITOSAN

Description: This powder is obtained from snow crabs' shells (Chionoecetes opilio).

Geographic origin: Alaska

Appearance: fine powder of white to beige color, with

characteristic odor

Composition: Chitosan ≥ 90%

PACKAGING: 25 kg drum

(4) ENERGY (5) HEART



BONE





Description: CalciSepia™ is a powder rich in calcium carbonate produced from processing cuttlefish co-products (Cuttlefish pharaonis).

Appearance: fine powder of white to grey color, with

characteristic odor

Composition: Calcium 36%

PACKAGING: 25 kg bag

FISH BONE

Description: This powder is obtained from white fish bones.

Geographic origin: North East Atlantic (FAO27)



Appearance: fine powder of white to grey color, with

characteristic odor

Composition: Calcium > 21% - Phosphorus > 10%

PACKAGING: 25 kg drum





FISH MILT - MARINE DNA

SKIN



Description: This powder is obtained from wild cod milt (Gadus morhua).

Geographic origin: Atlantic (FAO27)



Appearance: fine white brown to oranged powder with a

characteristic odor

Composition: Proteins ≥ 77,5% - Fats 11,1%

PACKAGING: 25 kg bag



BONE



HYDROXYAPATITE

Description: This powder is obtained by hydrolysis then dehydration and grinding of sardine scales (Sardina pichardus).

Geographic origin: Normandy and Brittany coasts

Appearance: fine powder of white color, with characteristic odor

Composition: Hydroxyapatite Ca₁₀(PO4)₆(OH)₂ 55% - Calcium 20% -Phosphorus 10%

PACKAGING: 25 kg drum



MARINE CALCIUM

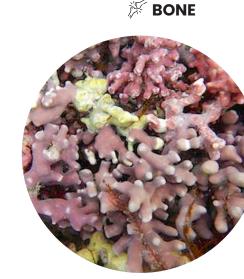
Description: This powder is obtained from the algae Lithothamnium (Lithothamnium calcareum).

Geographic origin: Icelandic coast



Appearance: fine grey powder with characteristic odor

Composition: Calcium 30-35% - Magnesium 2-4%





MARINE CHONDROITIN SULFATE 90%



Description: This powder is obtained from fish bones, *mainly Gadus macrocephalus*.

Appearance: fine powder of white to beige color, with characteristic odor

Composition: Chondroitin sulfate ≥ 90%

PACKAGING: 25 kg bag



MARINE ELASTIN

Description: This powder is obtained by enzymatic hydrolysis of wild fish skins. The peptides obtained have a molecular weight of 1400 Da, which makes the powder soluble in aqueous phase and fully digestible.

Appearance: fine, off-white powder with a characteristic odour

Composition: Proteins > 75%

PACKAGING: 20 kg bag



MARINE MAGNESIUM

Description: Marine magnesium oxide powder is extracted from sea water purification. The gentle, solvent-free process reduces the sodium and chloride content.

Appearance: fine white to beige powder with a characteristic odor

Composition: Magnesium > 55%



MUSSEL MEAT



Description: This powder is obtained from mussels (Perna canaliculus).

Geographic origin: New Zealand



Appearance: fine powder of light brown to olive green color, with

characteristic odor

Composition: Proteins > 30%

PACKAGING: 25 kg bag



OYSTER MEAT (TAURINE)

Description: This powder is obtained from oysters (*Crassostrea* gigas).

Geographic origin: South Korea 🧐

Appearance: fine powder of beige color, with characteristic

odor

Composition: Taurine ≥ 3% - Proteins > 35%

PACKAGING: 25 kg bag





OYSTER SHELL OYSTER COLTM

Description: The oyster shell powder is produced from oyster shells Crassostrea gigas.

Geographic origin: Atlantic and Brittany coasts 😴



Appearance: fine powder of grey color, with characteristic

odor

Composition: Calcium 35%



SHARK CARTILAGE

M JOINT HEALTH

Description: This powder is obtained from dogfish (*Scyliorhinus canicula*) skeletons.

Geographic origin: Normandy and Brittany coasts

Appearance: fine powder of white color, with characteristic odor

Composition: Collagenous proteins ≥ 20 % - Chondroitin sulfate 4% - Glycosaminoglycans 5% - Glucosamin sulfate 2,5% - Calcium ≥ 20% - Phosphorus ≥ 10%

PACKAGING: 25 kg drum



SHARK CHONDROITIN SULFATE 90%

Description: This powder is obtained from shark (*Carcharhinus Latistomus*) fish bones.

Appearance: fine powder of white to beige color, with characteristic odor

Composition: Chondroitin sulfate ≥ 90% - Proteins ≤ 6%

PACKAGING: 25 kg bag

M JOINT HEALTH



SKATE CARTILAGE

Description: This powder is obtained by dehydrating and then grinding ray skeletons (*Raja spp*).

Geographic origin: Normandy and Brittany coasts

Appearance: fine powder of white color, with characteristic odor

Composition: Collagenous proteins ≥ 40 % - Chondroitin sulfate 15% - Glycosaminoglycans 20% - Glucosamin sulfate 9% - Calcium ≥ 10%

- Glycosarriinoglycaris 20% - Glacosarriin saliate 9% - Calciarri 2 10%

- Phosphorus ≥ 6%

PACKAGING: 25 kg drum







TYPE I MARINE COLLAGEN







Description: This powder is obtained by enzymatic hydrolysis of MSC-certified wild fish' skins (Gadus morhua, Theraga chalcogramma, Pollachius virens, Melanogrammus aeglefinus, Pleuronectes platessa). The peptides obtained have a molecular weight of 2000 Da.

Appearance: fine white to pale yellow powder neutral and odorless

Composition: Proteins ≥ 90%

PACKAGING: 15 kg bag



TYPE II MARINE COLLAGEN

Description: This powder is obtained by dehydrating and then grinding ray skeletons (Raja spp).

Geographic origin: Normandy and Brittany coasts

Appearance: fine powder of white color, with characteristic odor

Composition: Collagenous proteins ≥ 40 % - Chondroitin sulfate 15% - Glycosaminoglycans 20% - Glucosamin sulfate 9% - Calcium ≥ 10% - Phosphorus ≥ 6%







PAGE 16 ALGAE POWDERS

ASCOPHYLLUM

CHLORELLA

PAGE 17 LITHOTHAMNIUM
SPIRULINA

PAGE 18 ALGAE FLAKE FORM

BLADDERWRACK

DULSE

NORI

PAGE 19 SEA LETTUCE
SEA SPAGHETTI
WAKAME

ALGAE POWDERS

ASCOPHYLLUM



₩ WEIGHT CONTROL

GASTROINTESTINAL HEALTH

Description: This powder is obtained from brown algae Ascophyllum (Ascophyllum nodosum).

Geographic origin: North Atlantic coast

Appearance: fine pale green powder with characteristic

odor

Composition: Minerals matters 14-25%, vitamin K1

PACKAGING: 25 kg bag



CHLORELLA

Description: This powder is obtained from microalgae Chlorella (*Chlorella vulgaris*).

Appearance: fine dark green powder with characteristic odor

Composition: Proteins 45-55% - Minerals matters 6-9%, manganese, iron, chromium, vitamins A, K1, B9, B12





LITHOTHAMNIUM

BONE

Description: This powder is obtained from algae Lithothamnium (*Lithothamnium calcareum*).

Geographic origin: Icelandic coast

Appearance: fine grey powder with characteristic odor

Composition: Calcium 30-35% - Magnesium 2-4%

PACKAGING: 25 kg bag



SPIRULINA

Description: This powder is obtained from microalgae Spiruline (Spirulina platensis).

Appearance: fine dark green powder with characteristic odor

Composition: Proteins 50-65% - Phycocyanine 10-12%, iron, chromium, vitamins K1, B1, B12





FLAKE FORM ALGAE

We also offer organic algae in flake form for gastronomy and dietetics. They are grown on Brittany coast.

BLADDERWRACK



Description: Bladderwrack (Fucus vesiculosus) is a brown seaweed.

Geographic origin: Brittany coast

Composition: Proteins, fibers, calcium, magnesium, potassium,

iron, zinc, manganese, chromium

PACKAGING: 25 kg bag







Description: Dulse (*Palmaria palmata*) is a red algae.

Geographic origin: Brittany coast

Composition: Proteins (17%), fibers, calcium, magnesium, potassium, iron, zinc, manganese, chromium, vitamins B, C, E, K1

PACKAGING: 25 kg bag







Description: Nori (Porphyra haitanensis) is a red algae.

Geographic origin: Brittany coast

Composition: Proteins (31%), fibers, calcium, magnesium, potassium, iron, zinc, chromium, vitamins B, K1







Description: Sea lettuce (*Ulva lactuca*) is a green algae.

Geographic origin: Brittany coast

Composition: Proteins (16%), fibers, magnesium, potassium, manganese, molybdenum, iron, chromium, vitamins B

PACKAGING: 25 kg bag



SEA SPAGHETTI



Description: Sea spaghetti (*Himanthalia elongata*) is a brown algae.

Geographic origin: Brittany coast

Composition: Proteins, fibers, calcium, magnesium, potassium, iron

iron

PACKAGING: 25 kg bag





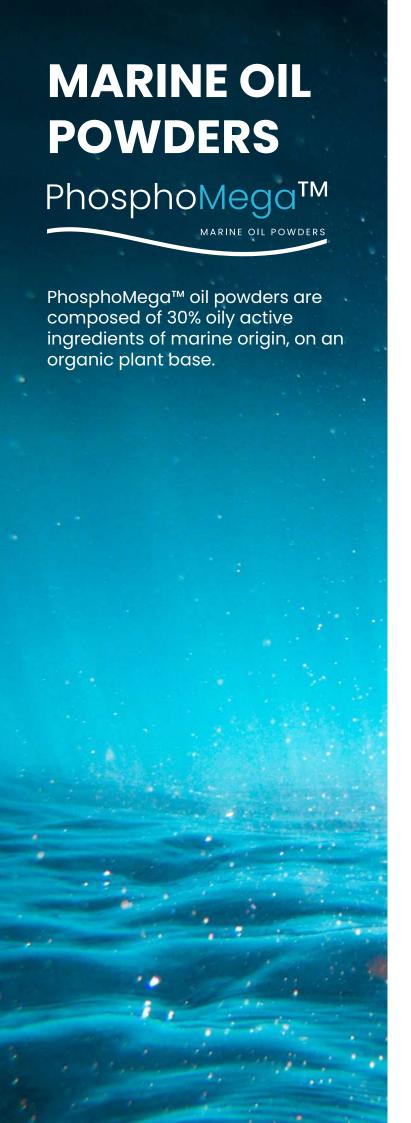


Description: Wakame (*Undaria pinnatifida*) is a brown algae.

Geographic origin: Brittany coast

Composition: Proteins, fibers, calcium, magnesium, potassium, manganese, iron, chromium, vitamins B, K1





PAGE 16 PHOSPHOMEGA 18/12 TG
PHOSPHOMEGA 35/25 EE

PAGE 17 PHOSPHOMEGA ALGAE SCHIZOCHYTRIUM SP.

PHOSPHOMEGA KRILL

PAGE 18 PHOSPHOMEGA COD LIVER

PHOSPHOMEGA SHARK LIVER

PHOSPHOMEGA 18/12 TG



Description: This powder is obtained from 18/12 TG fish oil by spray drying.

Odor: characteristic

Appearance: fine white to pale yellow powder

18/12 TG OIL

 Origin of the oil: sardine (Sardina pilchardus), anchovy (Engraulis ringens) and mackerel (Scomber japonicus).

• Geographic origin: Peru 🔤 Chili (FAO 87) 🏪



PACKAGING: 10 kg bag

FATTY ACIDS COMPOSITION (%/total fatty acids)

C20:5 n-3 (Eicosapentaenoic acid _ EPA)	18%
C22:6 n-3 (Docosahexaenoic acid _ DHA)	12%



PACKAGING: 10 kg bag

PHOSPHOMEGA 35/25 EE

Description: This powder is obtained from 35/25 EE fish oil by spray drying.

Odor: characteristic

Appearance: fine white to pale yellow powder

35/25 EE OIL

- **Origin of the oil:** anchovy (*Engraulis ringens*) and tuna (*Thunnus thynnus*)
- Geographic origin: Peru (anchovy) Mauritius (tuna)

FATTY ACIDS COMPOSITION (%/total fatty acids)

C20:5 n-3 (Eicosapentanoic acid _ EPA)	35%
C22:6 n-3 (Docosahexanoic acid _ DHA)	25%

PHOSPHOMEGA ALGAE SCHIZOCHYTRIUM SP.



Description: This powder is obtained from the microalgae Schizochytrium sp., a rich source of omega 3 docosahexaenoic acid

(DHA), by spray drying.

Odor: characteristic

Appearance: fine white to pale yellow powder

MICROALGAE SCHIZOCHYTRIUM SP. OIL

• Origin of the oil: microalgae Schizochytrium sp.

• Geographic origin: China 🎽



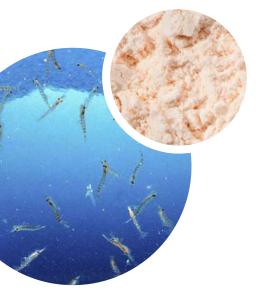
C22:6 (Docosahexanoic acid _ DHA)

40%



PACKAGING: 25 kg bag

CARDIOVASCULAR HEALTH



PHOSPHOMEGA KRILL

Description: This powder is obtained from Krill oil, rich in marine omega 3 phospholipids, by spray drying.

Odor: characteristic

Appearance: fine pale orange to red powder

KRILL OIL

Origin of the oil: Krill (Euphausia superba)

• Geographic origin: Antarctic

PACKAGING: 10 kg bag

PHOSPHOMEGA COD LIVER





Description: This powder is obtained from cod liver oil by spray drying.

Odor: characteristic

Appearance: fine white to pale yellow powder

COD LIVER OIL

• Origin of the oil: cod liver (Gadus morhua)

• **Geographic origin:** North Atlantic (FAO27)



FATTY ACIDS COMPOSITION (%/total fatty acids)

C20:5 n-3 (Eicosapentaenoic acid _ EPA)	7-16%
C22:6 n-3 (Docosahexaenoic acid _ DHA)	6-18%



PACKAGING: 10 kg bag

MMUNITY



PHOSPHOMEGA SHARK LIVER

Description: This powder is obtained from shark liver oil by spray drying.

Odor: characteristic

Appearance: fine white to pale yellow powder

SHARK LIVER OIL

• Origin of the oil: shark liver (Squalus blainville)

• Geographic origin: North Atlantic (FAO27)

Composition: Alkylglycerols 40%

PACKAGING: 10 kg bag

INGREDIENTS AND HEALTH EFFECTS

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ES	LeciBrain™	•								
Ĕ	SulfoBiolin™				•					
OUR SPECIALITIES	ChondroFLX™					•				
PEC	CollaSea™					•		•		
JR S	OysterCal™			•						
5	CalciSepia™			•						
	Chitosan		•				•			
	Cuttlebone			•						
	Fish bone			•						
	Fish milt	•						•		
	Hydroxyapatite			•						
ERS	Marine calcium			•						
M	Marine chondroïtine sulf.					•				
8	Marine elastine							•		
MARINE POWDERS	Marine magnesium	•	•							
AR	Mussel meat					•				
2	Oyster meat		•				•			
	Oyster shell			•						
	Shark cartilage					•				
	Shark chondroitin sulfate					•				
	Skate cartilage					•				
	Type I marine collagen					•		•		
	Type II marine collagen					•				
SS										
DEI	Ascophyllum									•
8	Chlorella		•						•	
A P	Lithothamnium			•						
ALGAE POWDERS	Spirulina		•							
∢	18/12 TG	•					•			
EG.	35/25 EE	•					•			
PHOSPHOMEGA	Algae Schyzochytrium	•								
SP	Krill						•			
9	Cod liver				•	•				
	Shark liver				•					





FISH MEALS

COD MEAL 25 kg bag

SALMON MEAL 25 kg bag

TUNA MEAL 25 kg bag

MOLLUSC & CRUSTACEAN MEALS

SQUID MEAL 25 kg bag

SHRIMP MEAL 25 kg bag

CRAYFISH MEAL 25 kg bag

KRILL MEAL 25 kg bag

ALGAE OIL

ALGAE OIL 64% OMEGA 3 25 kg, 190 kg, (13% EPA - 43% DHA) 450 kg or 950 kg drum

FISH OILS

COD LIVER OIL 25 kg drum

SHARK LIVER OIL 25 kg drum

FISH OIL (25% EPA + DHA) 25 kg drum

CRUDE FISH OIL 25 kg drum

SALMON OIL 25 kg drum



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