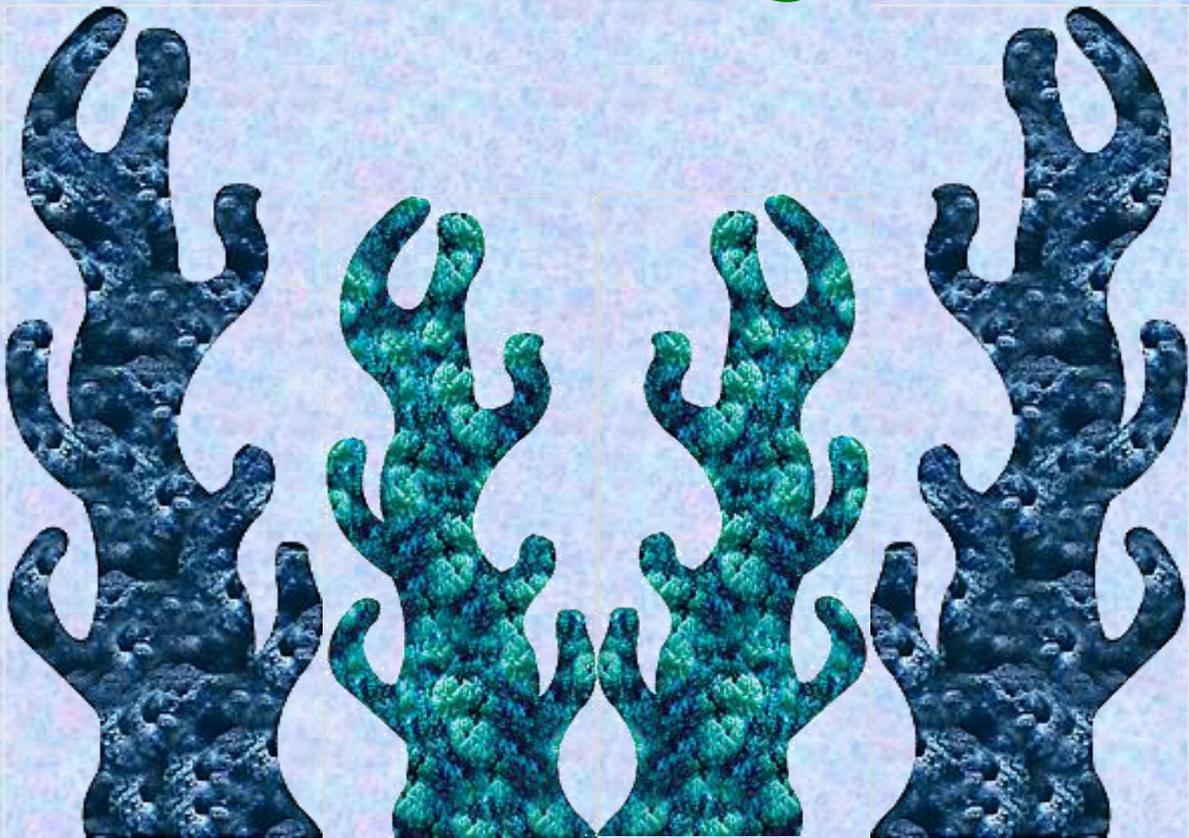


SOUTH SEA BLUE SEAWEED EXTRACT



**novel functional ingredients for
multi-purpose formulations**



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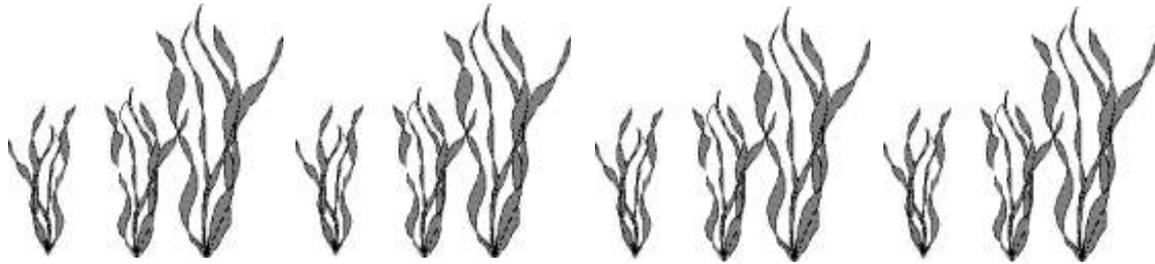
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CAMPO® Multi-Purpose Cosmetic Base Chemicals & Active Ingredients

CAMPO® Novel Functional Active Cosmetic Ingredient & Raw Materials



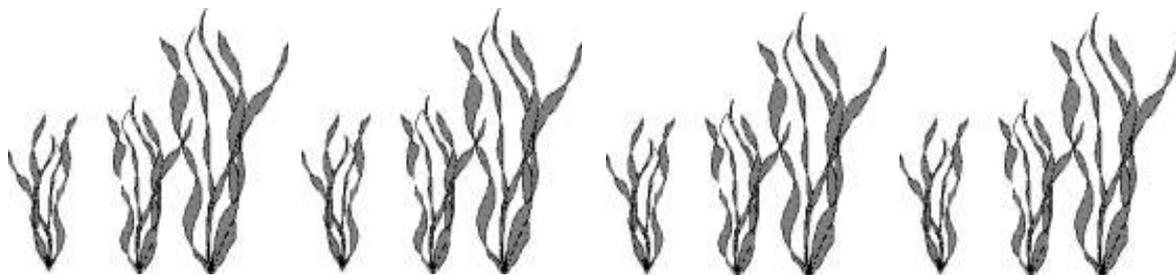
South Sea Blue Seaweed Extract

Is a thickened concentrated extract from *Corallina officinalis* cyan. South Sea Blue Seaweed Extract contains all the active ingredients which are found in natural seaweed.

The reaction on the skin is caused by the combined action of various biological substances: various sugars, in particular mannitol and other polysaccharides such as agarose, laminaribiose, laminarinfucoidin. Proteins and amino acids (e.g. alanine, asparaginic acid, glutaminic acid). Phytohormones, in particular the plant hormone abscisin. Minerals in particular plenty of magnesium copper. Trace elements e.g. molybdenum, calcium etc. Vitamins. Traces of iodine, fluorine and bromine. Chlorophyll, xantophyll, alginic acid. In brown algae: dictyopteren.

The polysaccharide amino acid complex which is contained in the seaweed has the effect of a natural moisturiser. The effect is similar to that of a "biological sponge", and is intensified by the gelling agents e.g. natural alginic acid.

South Sea Blue Seaweed Extract has a very high content of amino acids and carbohydrates e.g. arabinose, magnesium salts and vitamins (Vitamin C, Biotin etc.). It has a very high natural sun protective factor as most of the tidal shore-line seaweed in the South pacific Islands.





by Campo

Usage

As an additive in various cosmetic preparations, in particular in anti-seborrheic preparations, for formulations which have anti-bacterial and astringent effects and natural sun protection factor.

Dosage

As required.

It is recommended using a 30 % stock solution that is filtered and preserved.

According to Dogliani seaweed extracts "help against ageing of the skin by rehydration, tightening and toning". "They delay the degeneration of the cells."

Seaweed extracts have an antibacterial effect work against acne. An anti-viral effect has also been proven. According to Dogliani they are used on cellulite (in baths) and for weight loss.

Seaweed extracts are also used in foam baths and in shampoos for greasy scalps.

A seaweed therapy speeds up the granulation and the epithelisation. It was successful in the treatment of varicose syndrome on 86 patients (Schimmer).

**CAMPO RESEARCH Pte Ltd
TECHNICAL SPECIFICATION**

Product Name (Campo Research) Other Trade Names (Campo Research)	South Sea Blue Seaweed Extract Blue Seaweed Extract
Existing CTFA / INCI Name	Corallina Officinalis Extract
Chinese Translation	珊瑚藻 (CORALLINA OFFICINALIS) 提取物
CAMPO PRODUCT # HS Code	53477 1302.19.0000
CTFA Monograph ID	7736 – Corallina Officinalis Extract
CAS# CAS# EU	89997-92-2 – Corallina Officinalis Extract 89997-92-2 (EU) – Corallina Officinalis Extract
EINECS Numbers and Name EINECS# EU	289-730-0(1) – Corallina Officinalis Extract 289-730-0 (EU) – Corallina Officinalis Extract
EINECS Number and Name EINECS# EU European Commission–Health & Consumer Cosmetics–Cosing	Corallina Officinalis Extract http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&id=33034 Corallina Officinalis Extract – 289-730-0 (EU)
BATCH / LOT	See COA Batch Lot
SPECIES	Corallina officinalis cyan. Syn: <i>Corallina officinalis extract</i>
PARTS USED	Seaweed
RAW MATERIAL – ORIGIN	South Pacific Islands
CONCENTRATION	-
COMMENTS	A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material *Please take note that all specifications are liable to changes without prior notice.

<u>Specification Parameter</u> <u>Analysis</u>	<u>Specification Range</u>	<u>Results</u>	<u>Methods</u>
Physical Form	Liquid	Conforms	Visual
Color	Brownish, cloudy liquid	Conforms	Visual
Odor	Charateristic – seaweed	Conforms	Olfactory
Specific Gravity (20°C)	1.010 – 1.090	See COA	USP XXIX/Par,DMA35
Refractive Index (20°C)	1.350 – 1.400	See COA	USP XXIX/DGF IV C (52)
pH (20°C) (100% Concentrate)	4.00 – 6.00	See COA	USP XXIX/DGF H III (92)
Carrier Menstrual (Vehicle)			
Water	60 – 70 %	See COA	-
Propylene Glycol	30 – 40 %	See COA	-
Water Solubility	Soluble	Conforms	-
Saponification Value	N/A	-	-
Viscosity	N/A	-	-
Dry Residue (160°C / 2hrs)	< 20%	See COA	Mettler 16J
Preservation	None	Corforms	-
Pesticide Content	None	Conforms	Pflanzaniaschuttal 1989

Total Germs	<100 Cfu/ml – Non-Pathogenic	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Total Yeast/Mold	<100 Cfu/ml	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Heavy Metals(Total)As,Pb,Hg	<0.10 ppm	Conforms	USP XXIX/Ph.Eur.2.6.12(97)

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