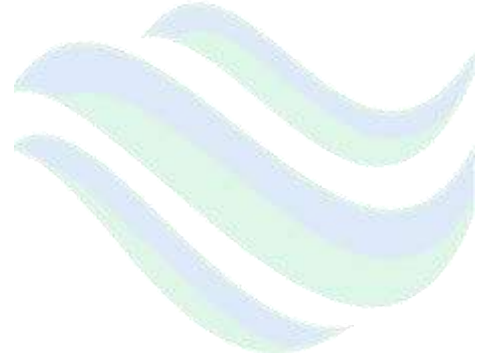


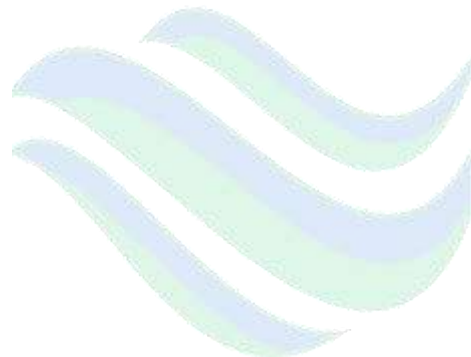


**TECHNICAL DOSSIER
PHYCOSKIN[®] ONE**

Date: 22/02/2021
Version: 05



**TECHNICAL DOSSIER
PHYCOSKIN[®] ONE**





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PRODUCT: PHYCOSKIN® ONE

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1. GENERAL DESCRIPTION

Product:	PLANKTON EXTRACT ENCAPSULATED (2.00%)
Name:	PHYCOSKIN® One
Product code:	PSK ONE
Description:	Plankton extract (2.00%) encapsulated in highly effective multilamellar liposomes to be added in cosmetic and cosmeceutical formulations as creams, gels and lotions.
Quality and Security:	See MSDS

2. INCI

AQUA, MANNITOL, PHOSPHATIDILCOLINE, GLYCERIN, PLANKTON EXTRACT, DECYL GLUCOSIDE, CETYL ALCOHOL, POTASSIUM SORBATE, SODIUM BENZOATE, XANTHAN GUM, SODIUM CHLORIDE

3. COMPOSITION

Ingredient	CAS	%(w/w)
WATER	7732-18-5	Q.S. 100 %
MANNITOL	69-65-8	6.00-8.00 %
PHOSPHATIDYLCHOLINE	8002-43-5	4.30-6.30 %
GLYCERIN	56-81-5	2.50-3.50 %
PLANKTON EXTRACT	91079-57-1	1.5-2.5 %
DECYL GLUCOSIDE	54549-25-6	0.90-1.50 %
CETYL ALCOHOL	36653-82-4	0.60-0.80 %
POTASSIUM SORBATE	24634-61-5	0.50-0.70 %
SODIUM BENZOATE	532-32-1	0.50-0.70 %
XANTHAN GUM	11138-66-2	0.10-0.30 %
SODIUM CHLORIDE	7647-14-5	0.05-0.15 %

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4. ORIGIN

Ingredient	Origin	Country of origin
AQUA	NATURAL	SPAIN
MANNITOL	VEGETABLE	WORLDWIDE
PHOSPHATIDILCOLINE	VEGETABLE	WORLDWIDE
GLYCERIN	VEGETABLE	SOUTH EAST ASIA AND EUROPE
PLANKTON EXTRACT	VEGETAL	SPAIN
DECYL GLUCOSIDE	NATURAL	FRANCE
CETYL ALCOHOL	SYNTHETIC	NO DATA
POTASSIUM SORBATE	SYNTHETIC	GERMANY
SODIUM BENZOATE	SYNTHETIC	NETHERLANDS
XANTHAN GUM	BIOTECHNOLOGY	GERMANY
SODIUM CHLORIDE	SYNTHETIC	NETHERLANDS OR FRANCE

5. SPECIFICATIONS

Parameter	Value
APPEARANCE	Liquid
COLOUR	Green
ODOUR	Characteristic
SIZE (nm)	150-300
POLYDESPERSITY INDEX	<0.5
pH	5.5-6.5

6. COUNTRY OF MANUFACTURE

SPAIN

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7. EXPIRATION AND STORAGE

STORAGE	<ul style="list-style-type: none">• Store in a clean, dark and cool place (8- 25°C).• Do not freeze.
SHELF LIFE	<ul style="list-style-type: none">• 12 months if the product is kept in the original sealed container.
RECOMMENDATION	<ul style="list-style-type: none">• This product has been packed in a protective nitrogen atmosphere. Once opened, it is recommended to use the entire product or repackage the excess part using nitrogen.

8. RECOMMENDED DOSE

1% Added at the end of the formulation process.

9. DISPERSABILITY

Dispersible product in aqueous media. (See incompatibilities)

10. HOW TO USE

Shake before using.

Add to bulk during the final phase of the production process, ensuring that the temperature does not exceed 40°C to avoid degradation of the encapsulated molecules. If you need to add it to higher temperatures, please consult our technical service.

Maximum homogenization: 20.000 rpm.

Formulation pH: 3,5 - 8

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11. INCOMPATIBILITIES

Ethanol concentration higher than 15% may damage liposomes.

Detergents may break liposomes.

Do not add to oil. In emulsions W/O or O/W add it in the aqueous solution.

12. ISO 16128-1:2016 AND 16128-2:2017

In accordance with the guidelines on definitions of natural and organic cosmetic ingredients (ISO 16128-1: 2016 and 16128-2:2017), we certify according to the information provided by our suppliers and our production process, the following information:

Naturally origin content: NOT AVAILABLE

Naturally content: NOT AVAILABLE

13. TEST ON ANIMALS

This product has not been tested on animals by or on behalf of MICROALGAE SOLUTIONS S.L., in accordance with European Regulation (EC) No. 1223/2009.

14. HEAVY METALS

Max. 0.5 ppm.

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15. REACH

INGREDIENT	REACH
AQUA	Exempt (Ocurring in nature)
MANNITOL	Exempt (Annex IV Article 2(7)(a))
PHOSPHATIDILCOLINE	Exempt (Annex IV Article 2(7)(a))
GLYCERIN	Exempt (Annex V Article 2(7)(b))
PLANKTON EXTRACT	Exempt (Article 6 (1))
DECYL GLUCOSIDE	01-2119489418-23-XXXX
CETYL ALCOHOL	Exempt (< 1 tonne/year)
POTASSIUM SORBATE	01-2119950315-41-XXXX
SODIUM BENZOATE	01-2119460683-35-XXXX
XANTHAN GUM	Exempt (Article 2 (9))
SODIUM CHLORIDE	01-2119485491-33-XXXX

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16. INGREDIENT STATEMENTS*

Cosmetic allergens	This product does not contain any of the substances introduced in Annex III of the European Cosmetic Regulation by the Seventh Amendment (EC) No. 2003/15 based on SCCNFP opinion.
GMO	According to our knowledge, this product does not contain any ingredient considered a genetically modified organism.
CMR	According to our knowledge, this product does not contain any ingredient classified as carcinogenic, mutagenic or reprotoxic according to Regulation (EC) No. 1272/2008.
SVHC	According to our knowledge, this product does not contain any substance considered extremely worrying.
COV	According to our knowledge, this product does not contain any compound considered volatile organic.
Ftalatos	This product does not contain phthalates as an ingredient.
Nanomaterials	This product cannot be considered a nanomaterial as defined in Regulation (EC) No. 1223/2009.
Formaldehyde	This product does not contain formaldehydes or derivatives.
Palm Oil	This product contains palm oil (RSPO certified).
BSE / TSE	According to our knowledge, this product does not contain any compound related to Bovine Spongiform Encephalopathy or Transmissible Spongiform Encephalopathies
Dioxins	This product is not expected to contain Dioxins.
Pesticides	This product is not expected to contain Pesticides.
Vegetarian / Vegan	This product is suitable for vegetarians and vegans.
Halal	This product does not have Halal certification.
COSMOS certified	This product has COSMOS certification.

* Information based on our manufacturing process and information provided by our suppliers

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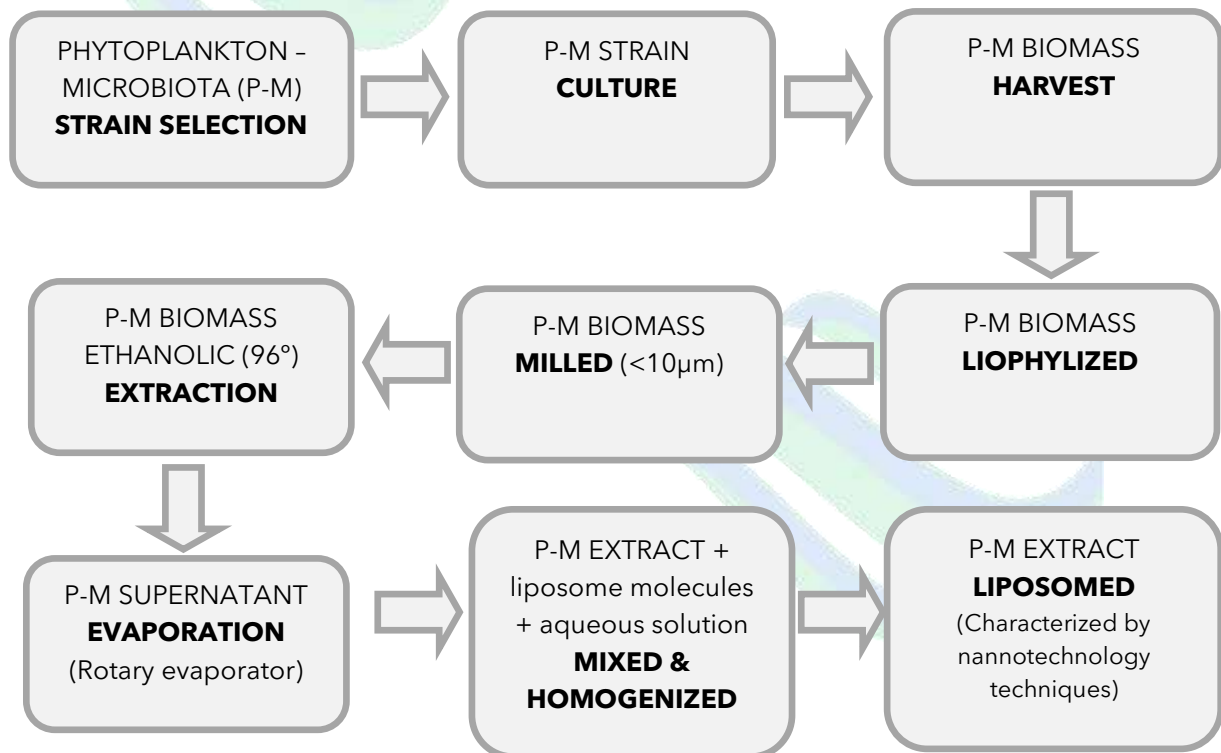
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17. REGULATIONS

Geographical Area	Regulation
European Union	This product is in accordance with Regulation (EC) No. 1223/2009.
USA	None of the compounds of this product are prohibited or restricted by FDA regulations.
Canada	None of the compounds of this product are included in the Cosmetic Ingredient Hotlist of Canada (2019) of Ingredients that are Prohibited or Restricted for Use in Cosmetic Products.
China	All INCI names are included in the last version of IECIC list (2015).

18. PRODUCTION PROCESS FLOW CHART



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19. FORMULATION GUIDELINES FOR PHYCOSKIN® One

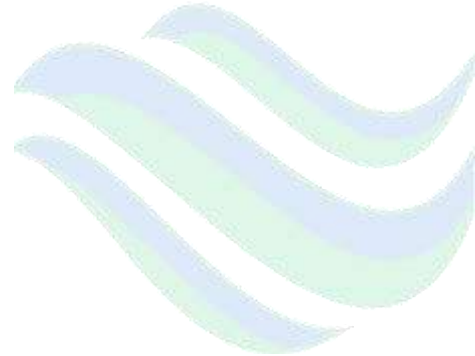
Key information

- o Do not dissolve PHYCOSKIN® One in any solvents. Disperse it directly in the formulation.
- o Avoid harsh surfactants
- o Do not use in formulations with alcohol content of > 15%
- o Avoid strong oxidants, such as peroxides
- o Add PHYCOSKIN® One upon cooling down
- o Recommended dosage: 1 %
- o Optimum pH range: 3,5 - 8
- o Preferred processing temperature: below 40° C
- o Stirring speed: below 20000 rpm

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Responsibility: The information contained in this document is, to the best of our knowledge, accurate. However, we reject any responsibility for the application and in processed materials that contain our product. Only the producer of the final product must assume full responsibility in accordance with current regulations. The content of this document is subject to change without notice unless otherwise agreed in writing. Consult with info@microalgaeolutions.com to get the latest version of this document.

