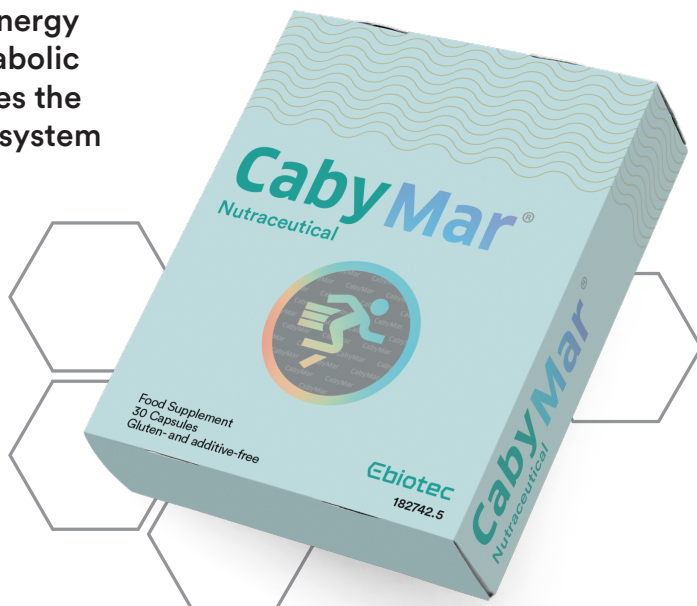


Boosts energy
Pro-metabolic
Reinforces the
immune system



Data Sheet

BRAND NAME

CabyMar®

MANUFACTURER

EuroEspes Biotechnology S.A.
(EBIOTEC).

NATIONAL CODE (SPAIN)

182742.5

ORIGIN

Scomber scombrus (Atlantic Mackerel,
of the *Scombridae* family).

PRODUCT

E-CAB-94011®.

STUDIES

Supported by basic scientific studies.

COMMERCIAL PRESENTATION

Box of 30 capsules,
containing 3 blisters and one leaflet.

RECOMMENDED DOSE

3 capsules/day during meals.
Recommended treatment
for a minimum of 3 months.

COMPOSITION

250 mg of E-CAB-94011®,
100% extract of *Scomber scombrus*.

What is CabyMar?

CabyMar® is a nutritional supplement with 100% natural ingredients obtained from the marine species *Scombrus scombrus* (Atlantic Mackerel, of the *Scombridae* family), by non-denaturing biotechnological processes that enable the preservation of all the healthy properties of the original species.

Composition

E-CAB-94011® extract. Marine proteins of high biological value. Essential amino acids needed for protein synthesis. Natural mono- and polyunsaturated fatty acids, mainly of the omega 3 type. Vitamins, essentially B₁₂, B₆, D and A. Minerals, essentially iodine, iron, and magnesium.

Reference Analysis per 100 g

PROTEINS: 70%		LIPIDS: 20%			
Amino acids % - Essential		Saturated (% in Lipids)		MINERALS	
LYSINE	4.8	PALMITIC	23.8	PHOSPHORUS	2206.8 mg
LEUCINE	3.7	STEARIC	6.3	SODIUM	300.6 mg
ARGININE	3.2	EICOSANOIC	2.4	MAGNESIUM	150.0 mg
VALINE	4.4	Monounsaturated (% in Lipids)		CALCIUM	12.3 mg
THREONINE	2.2	OLEIC	22.2	IRON	4.6 mg
HISTIDINE	2.0	PALMITOLEIC	5.8	POTASSIUM	1.0 mg
PHENYLALANINE	1.8	GONDOIC ACID	5.3	MANGANESE	1.0 mg
ISOLEUCINE	1.7	Polyunsaturated (% in Lipids)		ZINC	0.6 mg
METHIONINE	0.7	LINOLENIC	8.4	COPPER	7.1 mcg
Amino acids % - Non Essential		DHA	7.8	VITAMINS	
GLUTAMIC ACID	7.4	EPA	6.1	VITAMIN C	93.0 mg
ASPARTIC ACID	4.7	LINOLEIC	4.5	PANTOTHENIC ACID	1.2 mg
ALANINE	2.8			VITAMIN E	0.4 mg
GLYCINE	2.8			VITAMIN D	1.3 mcg
SERINE	2.3				
PROLINE	2.1				
TYROSINE	1.5				
HYDROXYPROLINE	0.2				

NUTRITIONAL ANALYSIS (per 3 capsules)

ENERGY VALUE	17.10 kJ 3.90 kcal
TOTAL FATS	150 mg
OF WHICH SATURATES	45 mg
TOTAL CARBOHYDRATES	12 mg
OF WHICH SUGARS	0.75 mg
PROTEIN	525 mg
SALT	8.1 mg
E-CAB-94011®	750 mg

Note: For health professionals only

The information contained in this data sheet is directed to health professionals.

Bibliography

Corzo L, Fernández-Novoa L, Carrera I, Martínez O, Rodríguez S, Alejo R, Cacabelos R. 2020. Nutrition, Health, and Disease: Role of Selected Marine and Vegetal Nutraceuticals. *Nutrients*, 12(3):747.

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Lombardi VRM, Fernández-Novoa L, Etcheverría I, Seoane S, Cacabelos R. 2005. Effects of fish-derived lipoprotein extracts on activation markers, Fas expression and apoptosis in peripheral blood lymphocytes. *International Immunopharmacology*, 5:253-262.

Indications

Main benefits: CabyMar® helps to boost metabolism and to increase the welfare of the organism. Specifically recommended in cases of fatigue, debility, low immune function, convalescence, physical deterioration and overweightness.

Other benefits: CabyMar® contributes to the maintenance of the immune system in adequate conditions and to maintain optimal cardiovascular health due to its content in unsaturated fatty acids.

Nutritional properties

1. E-CAB-94011® extract is the structural base of CabyMar®. It contains all the biological properties of the original species.
2. Lyophilization is the core technology used in the manufacture of CabyMar®. This technology enables the extraction and concentration of nutrients and active molecules in a pharmaceutical form. The application of this technique enables all the healthy properties of the original raw material to remain unchanged.
3. CabyMar® contains essential fatty acids: omega 3 (EPA and DHA), omega 6 (linoleic), and omega 9 (oleic acid). The omega 3 and 6 fatty acids accomplish fundamental physiological functions in the organism, and have important health properties, the most notable being cardioprotection.
4. CabyMar® contains proteins with a high nutritional value due to its content in essential amino acids. Proteins are fundamental structural and functional elements within each cell of the body and are involved in a wide range of physiological functions. All cells, tissues and organs contain proteins that are essential for their growth and repair, and therefore for the maintenance of good health.
5. CabyMar® contains vitamins, mainly D, C and B vitamins, and essentially B₁₂. Minerals, such as iron, iodine, magnesium, and phosphorus.

Precautions

CabyMar® contains a purified extract of blue fish. Not suitable for persons allergic to any of its ingredients. Not suitable for people with phenylketonuria. Do not exceed the recommended daily dose. Keep out of the reach of children. Should not be used as a substitute for a balanced diet.

Does not contain gluten or additives.

WHAT IS A NUTRACEUTICAL?

Nutraceuticals are products derived from natural sources whose nutritional and functional characteristics provide benefits to help improve health and therefore reduce the risk of suffering diseases; they may be combined with other active ingredients or exogenous nutrients such as vitamins, minerals, antioxidants, fatty acids, etc.; however, this type of products, which cover a wide range of possibilities, should be taken as part of a healthy, balanced diet and never as a replacement for it.

General Health Register
Nº: 26.06671/C



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Ebiotec
EuroEspes Group

ISO 9001 CERTIFIED COMPANY

PROCESOS PROPIOS DE FABRICACIÓN:

CabyMar® is a nutritional supplement belonging to the marine line of nutraceuticals developed and manufactured by EuroEspes Biotechnology S.A. (Ebiotec).

The nutraceutical bioproducts manufactured by EuroEspes Biotechnology are not limited to a particular nutrient (e.g. omega 3) or to a set of minerals and vitamins, or a specific protein complex, but because of their structure they contain a set of healthy substances that will help in many aspects of life for the maintenance of good health. Origin: A single species. The raw material comes from sustainable fishing, which is not the case of some omega 3 that comes from endangered species or species that maintain the balance of the trophic chain of oceans and seas. Our products are 100% natural and in the manufacturing process no synthetic chemical industrial processes are used (free of additives, etc).



01. CabyMar® activates human lymphocytes *in vitro*, hence encouraging cellular immunity.

Twenty-four blood samples from healthy volunteers were collected and peripheral blood lymphocytes were cultivated for a period of 2 days with CabyMar®. The state of activation, FAS expression and apoptosis of peripheral blood lymphocytes were measured via flow cytometry.

CabyMar® is able to activate human immune cells *in vitro*, increasing the levels of CD4⁺ (T-helper), CD8⁺ (T-cytotoxic), and CD19⁺ (B cells) lymphocytes. B lymphocytes make antibodies and T-lymphocytes protect the body from infection and may help fight cancer.

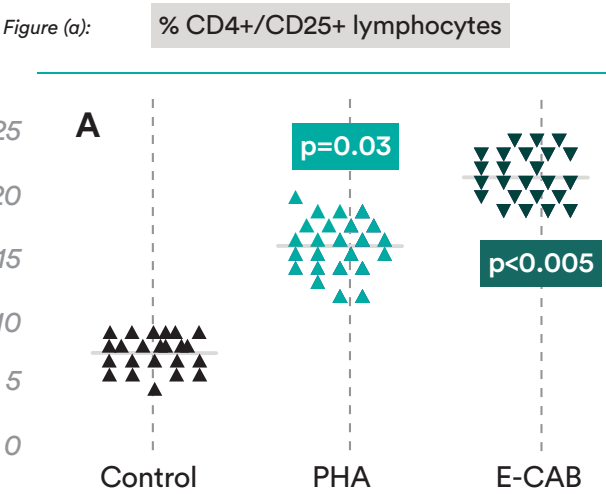


Figure (a):
The percentage of CD4⁺ T-lymphocytes expressing the activation marker CD25 (interleukin 2 receptor).

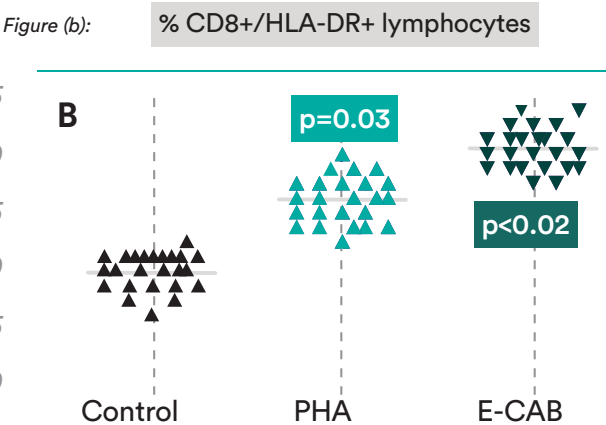


Figure (b):
The percentage of CD8⁺ T-lymphocytes expressing the activation marker HLA-DR.

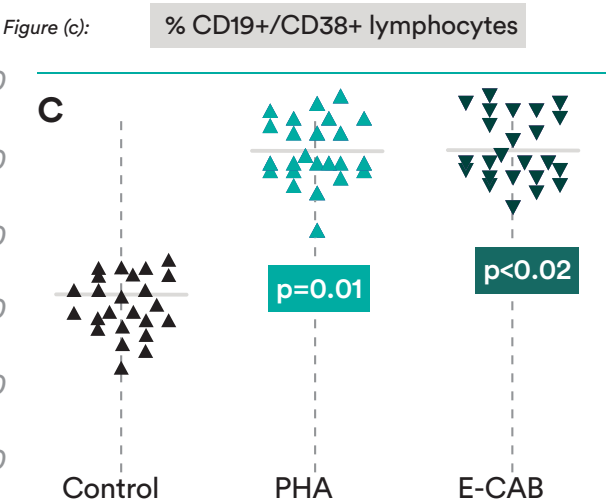


Figure (c):
The percentage of CD19⁺ B-lymphocytes expressing the activation marker CD38.

PHA: phytohemagglutinin activates lymphocytes in culture.
E-CAB: E-CAB-94011® extract, the structural base of CabyMar®.

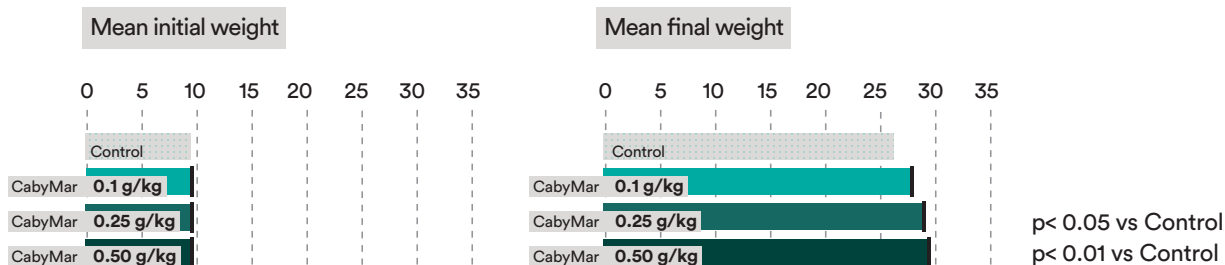
02. Effects of CabyMar® supplementation on weaned farm piglets.

Three hundred and sixty piglets were taken straight after weaning and divided in 4 groups: Control group (consumed animal feed only); Group 1 (animal feed supplemented with 0.1 g/kg CabyMar®); Group 2 (animal feed supplemented with 0.25 g/kg CabyMar®); and Group 3 (animal feed supplemented with 0.50 g/kg CabyMar®). Body weight, plasmatic levels of cholesterol, triglycerides, transaminases and immunoglobulins were recorded after the weaning period until day 56.

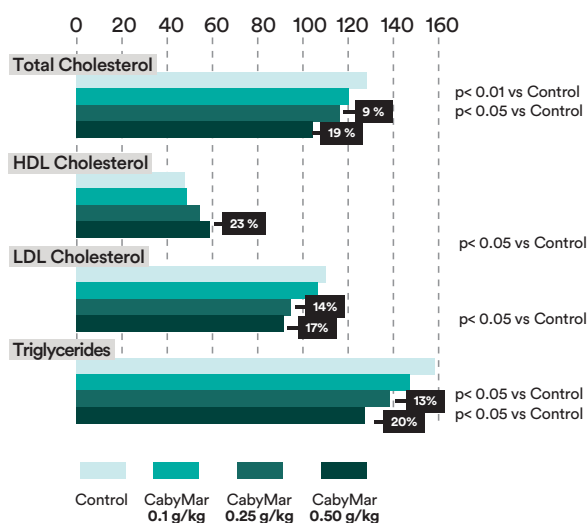
CabyMar® supplementation promotes growth in weaned farm piglets.

CabyMar® increases the body weight by 222% during the whole 56-day period. Supplemented animals gained an average of 550 g of body mass per day, while control animals gained an average of 490 g of body mass.

Body weight variation in weaned pigs supplemented with CabyMar® (kg)



Lipid parameter variation in weaned pigs supplemented with CabyMar® (g/L)



CabyMar® supplementation effects on lipid parameters in weaned farm piglets.

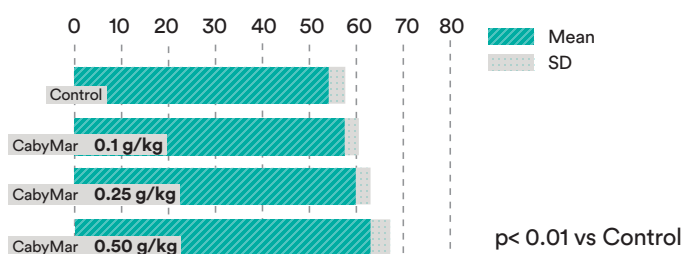
CabyMar® at 0.25 and 0.50 g/kg decreases total cholesterol levels by 9% and 19%, respectively.

CabyMar® at 0.50 g/kg increases HDL cholesterol levels by 23%.

CabyMar® at 0.25 and 0.50 g/kg decreases LDL cholesterol levels by 14% and 17%, respectively.

CabyMar® at 0.25 and 0.50 g/kg decreases triglycerides levels by 13% and 20%, respectively.

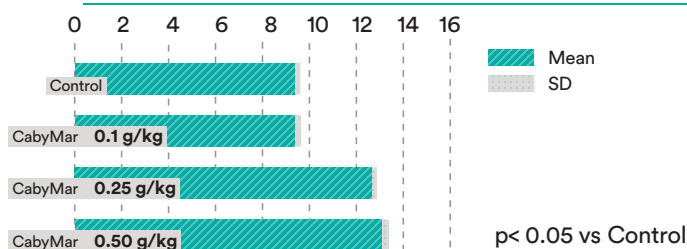
Hemoglobin levels in weaned pigs supplemented with CabyMar® (mg/dL)



CabyMar® supplementation increases the levels of hemoglobin and immunoglobulin A in weaned farm piglets.

CabyMar® increases hemoglobin levels in weaned pigs, which increases the blood oxygen capacity of the animals. Hemoglobin transports oxygen from the lungs to the rest of the organs in all vertebrates.

IgA levels in weaned pigs supplemented with CabyMar® (mg/mL)



CabyMar® increases the levels of immunoglobulin A in the blood of weaned pigs. The principal function of IgA is to prevent the passage of foreign substances into the circulatory system.