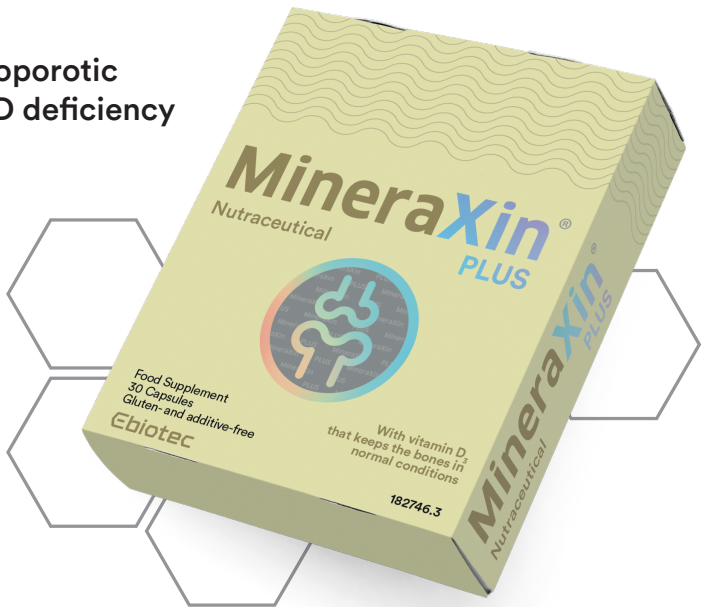


Antiosteoporotic
Vitamin D deficiency



What is MineraXin Plus?

MineraXin Plus® is a 100% natural nutritional supplement obtained from the combination of MineraXin Plus® (*Mytilus galloprovincialis*; Mediterranean mussel) and vitamin D₃, by non-denaturing biotechnological processes that enable the preservation of all the healthy properties of the original species.

Composition

E-MHK-0103® + Vitamin D₃. Marine proteins of high biological value. It contains natural mono- and polyunsaturated fatty acids, mainly of the omega 3 type. Structural phospholipids with important biological properties, such as choline, ceramides and phosphatidylethanolamines. Vitamins, essentially B₁₂, also vitamins C, A, E and folate. Minerals, essentially iodine, iron, selenium, sodium, phosphorus and zinc.

Reference Analysis per 100 g

PROTEINS: 75 - 85%		LIPIDS: 5 - 15%		MINERALS	
Amino acids %		Saturated fatty (% in Lipids)			
ALANINE+ARGININE	7.8	PALMITIC	16.2	SODIUM	2502.7 mg
GLUTAMIC ACID	6.9	STEARIC	3.9	PHOSPHORUS	996.5 mg
ASPARTIC ACID	5.5	MYRISTIC	2.3	CALCIUM	325 mg
LYSINE	4.6	HEPTADECANOIC	0.6	POTASSIUM	372 mg
GLYCINE	4.1	PENTADECANOIC	0.5	MAGNESIUM	197 mg
LEUCINE	3.6	Monounsaturated fatty (% in Lipids)		IRON	26 mg
SERINE	2.8	OLEIC	7.6	ZINC	18.1 mg
THREONINE	2.6	PALMITOLEIC	6.4	MANGANESO	1.2 mg
VALINE	2.6	ICOSANOIC	4.3	SELENIUM	0.6 mg
PROLINE	2.4	Polyunsaturated fatty (% in Lipids)		COPPER	6.0 mcg/L
ISOLEUCINE	2.2			VITAMINS	
TYROSINE	2.1	DHA	22.0	PANTOTHENIC ACID	9.2 mg
PHENYLALANINE	2.0	EPA	19.0	VITAMIN B ₂	0.2 mg
METHIONINE	1.2	LINOLEIC	4.4	(RIBOFLAVIN)	
HISTIDINE	1.0	DOCOSADIENOIC	3.4	FOLIC ACID	69 mcg
TAURINE	0.9	EICOSADIENOIC	3.1	VITAMIN B ₁₂	12 mcg
TRYPTOPHAN	0.6	DOCOSAPENTAENOIC (DPA)	2.8	CARBOHYDRATES 5 - 20 %	
HYDROXYPROLINE	0.5	ARACHIDONIC	1.6		
		LINOLENIC	1.1		

Note: For health professionals only

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

Data Sheet

BRAND NAME
MineraXin Plus®

MANUFACTURER
EuroEspes Biotechnology S.A.
(EBIOTEC).

NATIONAL CODE (SPAIN)
182746.3

ORIGIN
Mytilus galloprovincialis
(family Mytilidae).

PRODUCT
E-MHK-0103® + Vitamin D₃.

STUDIES
Scientific studies have been carried out in perimenopausal and menopausal women.

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-MHK-0103®, 100%
extract of *Mytilus galloprovincialis*
+ vitamin D (Cholecalciferol),
in hard gelatin capsules.

NUTRITIONAL ANALYSIS		(per 3 capsules)
ENERGY VALUE		15.60 kJ 3.60 kcal
TOTAL FATS		75 mg
OF WHICH SATURATES		24 mg
TOTAL CARBOHYDRATES		105 mg
OF WHICH SUGARS		3.75 mg
PROTEIN		480 mg
SALT		36 mg
E-MHK-0103®		750 mg
VITAMIN D ₃ (Cholecalciferol)		15 µg*

*300% of Nutrient Reference Values (NRV)

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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Cacabelos R. 2017. ProteoLipins and LipoFishins: Novel nutraceuticals and their effects. *Adjacent Government. Health & Social Care Reports*, January, 20.

Cacabelos R. 2016. Novel Biotechnological Products from Natural Sources: Nutri/Pharmacogenomic Component. *J Nutr Food Sci*, 6:6.

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Indications

Main benefits: MineraXin Plus® incorporates in its formula vitamin D₃ or cholecalciferol, enhancing the beneficial effect of MineraXin® on bone metabolism, promoting calcium absorption and maintaining bones healthy. The content of vitamin D₃ per capsule is 200 IU (5 µg).

Other benefits: MineraXin Plus® contributes to normalizing the symptomatology associated with perimenopause and menopause, and to increasing the deposits of iron in the organism.

Vitamin D Health Claims:

- Helps build and maintain strong and healthy bones.
- Necessary for adequate bone density.
- Necessary for the absorption and utilization of calcium and phosphorus.
- Helps to absorb calcium in the gastrointestinal tract and keeps a balance of calcium in the organism.
- Modulates cell growth, neuromuscular and immune function.
- Important for the structure of healthy teeth.
- Contributes to normal cell division.

Nutritional properties

1. E-MHK-0103® extract is the structural base of MineraXin Plus®. It contains all the biological properties of the original species.
2. Lyophilization is the core technology used in the manufacture of MineraXin Plus®. This technology allows the extraction and concentration of nutrients and active molecules in a pharmaceutical form. The application of this technique allows all the healthy properties of the original raw material to remain unchanged.
3. MineraXin Plus® contains essential fatty acids omega 3 (alpha-linolenic, EPA and DHA), omega 6 (linoleic and DPA), 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. MineraXin Plus® also contains other lipids, such as glycolipids and phospholipids, mainly phosphatidylserine, phosphatidylcholine and sphingomyelin. Phospholipids are substances with important functions in the organism, are fundamental components of cell membranes and bile acids; they exert antiinflammatory and antioxidant activities, and produce enzyme activation; they also participate in cardiovascular and brain protection.
5. MineraXin Plus® 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.
6. MineraXin Plus® contains vitamins, mainly A, B, C, E and folic acid. Minerals, such as iron, potassium, magnesium, selenium, sodium, phosphorus, iodine and zinc.
7. MineraXin Plus® contains other micronutrients essential for the proper functioning of our body. Numerous scientific studies describe the high content of glucosamines (a precursor of collagen) and hyaluronic acid in mussels. Glucosamine has antiinflammatory effects comparable to those of several synthetic drugs. Glucosamine is the most powerful natural antiinflammatory agent, and is very useful for people suffering from rheumatism, arthritis and osteoarthritis.

Precautions

MineraXin Plus® contains a purified extract of mussel. 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.

General Health Register
Nº: 26.06671/C



Customer hotline:
+34 981 784 848 / +34 981 780 505

MANUFACTURED BY:

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Ebiotec
EuroEspes Group

ISO 9001 CERTIFIED COMPANY

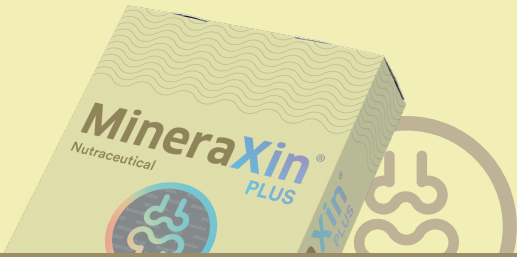
OUR OWN MANUFACTURING PROCESSES:

MineraXin Plus® 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).

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.



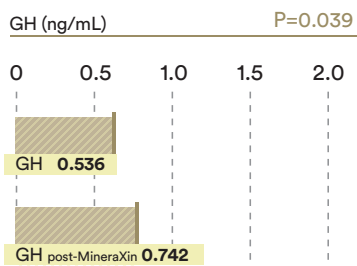
Health benefits of MineraXin® in 91 perimenopausal and postmenopausal women

01. Main effects of MineraXin® in menopausal women.

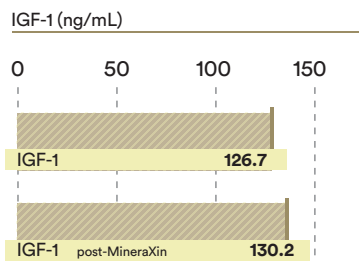
EFFECTS OF MineraXin® ON PERIMENOPAUSAL AND POSTMENOPAUSAL WOMEN

Clinical symptoms	Significant improvement in general status, hot flashes frequency, emotional stability and musculoskeletal pain.
Hormonal Pattern	Slight increase in serum estradiol (E2) and inhibin-A (INH-A) concentrations and a reduction in FSH and LH levels, a profile contrary to that commonly observed in the menopausal transition.
Bone mass	Increase in serum levels of GH and IGF-1. Slight decrease in bone alkaline phosphatase (BAP) and moderate decrease in Beta-CTx.
Antioxidant capacity	Significant increase in antioxidant status (TAS).
Cortisol levels	Reduction in cortisol levels in women with elevated basal cortisol levels, these being women with a higher anxiety index.
Iron stores	A significant increase in ferritin concentration, particularly in those patients with low basal ferritin values.
Calorie power	Slight reduction in body mass index (BMI).

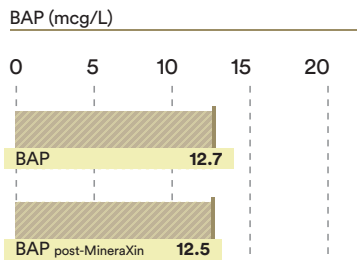
02. MineraXin® has positive effects on bone stability in perimenopausal women.



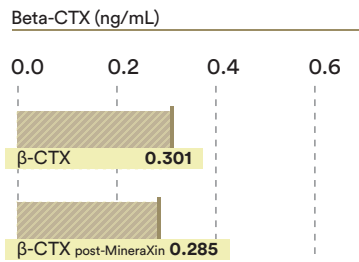
The significant increase in GH levels after **MineraXin®** supplementation indicates a gain of bone mass.



The slight increase in the levels of IGF-1 after **MineraXin®** supplementation favors bone health.



A slight reduction in the levels of bone alkaline phosphatase (BAP) after **MineraXin®** supplementation indicates a reduction in bone turnover and therefore less bone loss.

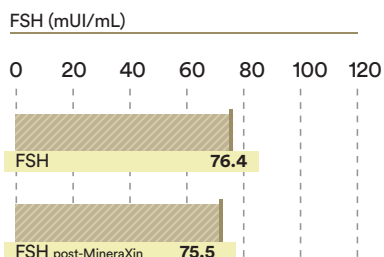


A slight reduction in Beta-CTx after **MineraXin®** supplementation indicates less bone destruction. Beta-CTx is a marker of the degradation of type I collagen.

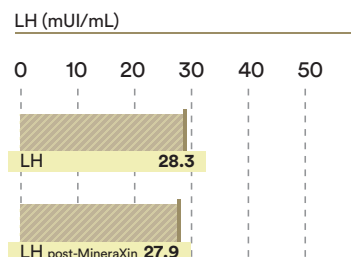
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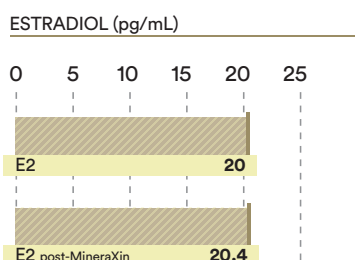
03. MineraXin® changes the hormonal pattern of perimenopause.



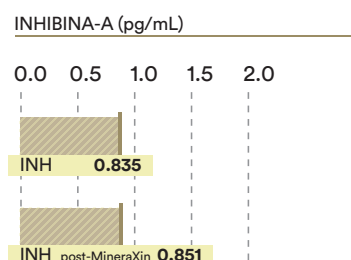
The elevation in FSH levels during the perimenopausal stage is slightly reversed by **MineraXin®**.



The elevation in the levels of LH hormone during the perimenopausal stage is slightly reversed by **MineraXin®**.

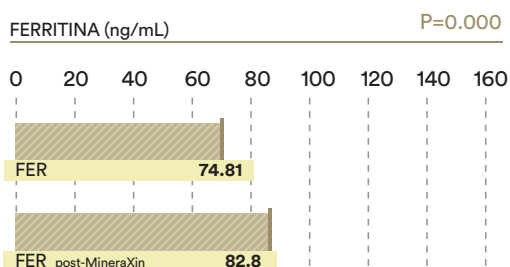


The decrease observed in the levels of estradiol during the perimenopausal stage is slightly reversed by **MineraXin®**.



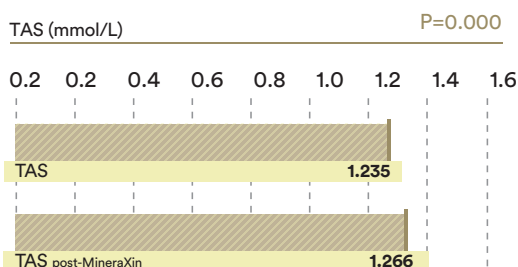
The decrease observed in the levels of Inhibin-A during the perimenopausal stage is slightly reversed by **MineraXin®**.

04. MineraXin® increases iron deposits in perimenopausal women.



MineraXin® supplementation significantly increases iron deposits.

05. MineraXin® increases total antioxidant status in perimenopausal women.



MineraXin® supplementation increases antioxidant capacity. A reduction in total antioxidant status has been implicated in several disease states, such as cancer and heart disease.

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