AtreMorine®

Nutraceutical - 100 capsules



What is AtreMorine?

AtreMorine® is a plant-based food supplement with natural ingredients obtained through a non-denaturing biotechnological process from the structural components of the plant species *Vicia faba* L.

Vicia faba is a natural source of L-Dopa, which the body uses to synthesize catecholamines, a group of neurotransmitters that includes noradrenaline, adrenaline, and dopamine.

Vitamin E, in the recommended daily amount. Its main function is to prevent lipid oxidation and is considered to be the most important lipophilic radical-scavenging antioxidant. Fats are an integral part of all cell membranes and are vulnerable to damage caused by lipid peroxidation by free radicals. In addition to maintaining the integrity of cell membranes, vitamin E protects lipoprotein fats from oxidation. Oxidized LDL has been implicated in the development of atherosclerotic plaque, a major risk factor for cardiovascular and cerebrovascular diseases.

Ebiotec

Data Sheet

BRAND NAME AtreMorine® capsules.

MANUFACTURER EuroEspes Biotechnology S.A. (EBIOTEC).

NATIONAL CODE (SPAIN) 200887.8

ORIGIN Vicia faba L.

PRODUCT E-PodoFavalin-15999[®].

STUDIES Supported by basic and clinical scientific studies (see bibliography).

COMMERCIAL PRESENTATION Bottle with 100 vegetable capsules.

RECOMMENDED DOSE 3 capsules/day

COMPOSITION 663 mg of E-PodoFavalin-15999[®] and 12 mg of Vitamin E in the form of d-alpha-Tocopheryl Acetate.

NUTRITIONAL ANALYSIS	(per 3 capsules)
ENERGY VALUE	12,6 kJ
	3 kcal
TOTAL FATS	12 mg
OF WHICH SATURATED	2,5 mg
TOTAL CARBOHYDRATES	345 mg
OF WHICH SUGARS	25 mg
PROTEIN	135 mg
SALT	9 mg

Composition

COMPOSITION	(per 3 capsules)
<i>Vicia Faba</i> L. * extract (E-PodoFavalin-15999®)	663 mg
Vitamin E (d-alpha-Tocopheryl Acetate) **	12 mg

* Contains approx. 16 mg L-dopa per 3 capsules.

** 100% of Nutrient Reference Values (NRV).

Reference Analysis per 100 g

AMINO ACID	S %	LIPIDS (g/100g f	at)		
Proteins		Saturated Total: 29.8		MINERALS	
ASPARTIC ACID 6.5 ARGININE 4.6 GLUTAMIC ACID 1.1 SERINE 0.9 LYSINE 0.7 ALANINE 0.7 TYROSINE 0.6 VALINE 0.6 GLYCINE 0.6 PHENYLALANINE 0.6 ISOLEUCINE 0.5 THREONINE 0.5 PROLINE 0.4 METHIONINE 0.3 HISTIDINE 0.3	4.6 1.1 0.9 0.7	PALMITIC STEARIC MYRISTIC Monounsaturated Tor	19.1 7.7 2.4 :al: 29.1 28.3	IRON 9. MAGNESIUM 205. POTASSIUM 1862. SODIUM 385.	441.1 mg 9.4 mg 205.6 mg 1862.3 mg 385.5 mg 2.2 mg
	0.6	PALMITOLEIC	0.8		NS
	0.6	Polyunsaturated Total: 41.1			0.2 mg
	0.5 0.5	LINOLEIC LINOLENIC	29.6 11.5	VITAMIN B ₃ (NIACIN) VITAMIN B ₂	4.2 mg 0.7 mg
	0.3	PHYTOSTEROLS (g/100g fat)		(PANTOTHENIČ ACID) VITAMIN B ₆ VITAMIN C	1.4 mg 30.0 mg
		BETA-SITOSTEROL CAMPESTEROL	68.2 20.5	(ASCORBIC ACID)	g
CARBOHYDRATES		STIGMASTEROL	6.9	OTHER	S
STARCH GLUCOSE	16.2 g 13.3 g	SITOSTANOL CHOLESTEROL	3.5 0.9	L-DOPA VICINE	25.6 mg/g 0.3 mg/g
FRUCTOSE 4.6 g		CAROTENOIDS (g/100	g pigments)	CONVICINE	0.3 mg/g
SACAROSE	0.9 g	t-LUTEIN BETA-CAROTENE EPOXIDES t-ZEAXANTHIN	37.4 32.0 30.0 1.0		

Note: For health professionals only

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

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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.

Indications

AtreMorine[®] capsules is a new commercial presentation of the original product, AtreMorine[®] 75 g powder. This new presentation is suitable for those who do not wish to use the powder form, thus facilitating the intake of AtreMorine[®]. It is also indicated in cases where a lower dose of the nutraceutical is required.



Precautions

Not suitable for persons allergic to any of its ingredients.

Persons suffering from favism due to glucose 6-phosphate dehydrogenase deficiency, or those chronically taking psychotropic drugs, should consult their physician before taking AtreMorine[®].

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.

General Health Register N°: 26.06671/C

MANUFACTURED BY:

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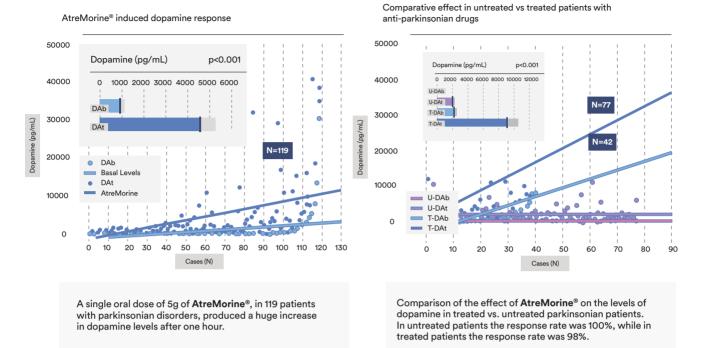
Customer hotline:

ISO 9001 CERTIFIED COMPANY

AtreMorine[®] is a nutritional supplement belonging to the vegetal line of nutraceuticals developed and manufactured by EuroEspes Biotechnology S.A. (Ebiotec).

The nutraceutical bioproducts developed at Ebiotec by the application of non denaturing biotechnological processes retain all the biological properties of their natural sources (of marine, vegetal or animal origin). All Ebiotec's products are supported by preclinical and clinical scientific documentation, have a clearly prophylactic focus, and contribute high therapeutic value in various health problems (disturbance of lipid metabolism, arteriosclerosis, neurodegenerative diseases, cardio- and cerebrovascular disorders, immune system dysfunction).

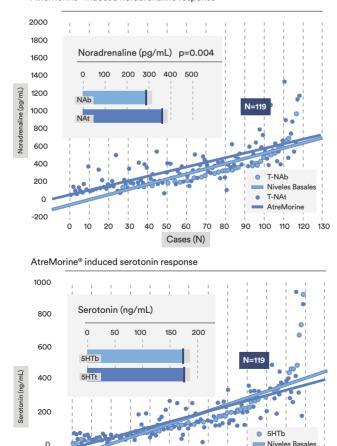
O1. AtreMorine[®] increases the levels of dopamine in parkinsonian disorders.



$\textbf{02. AtreMorine}^{\texttt{®}} \text{ affects neurotransmitter release in parkinsonian disorders.}$

5HTt
AtreN

90 100 110 120 130



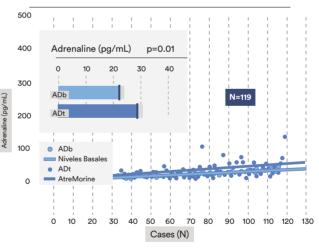
Cases (N)

-200

0 10 20 30 40 50 60 70 80

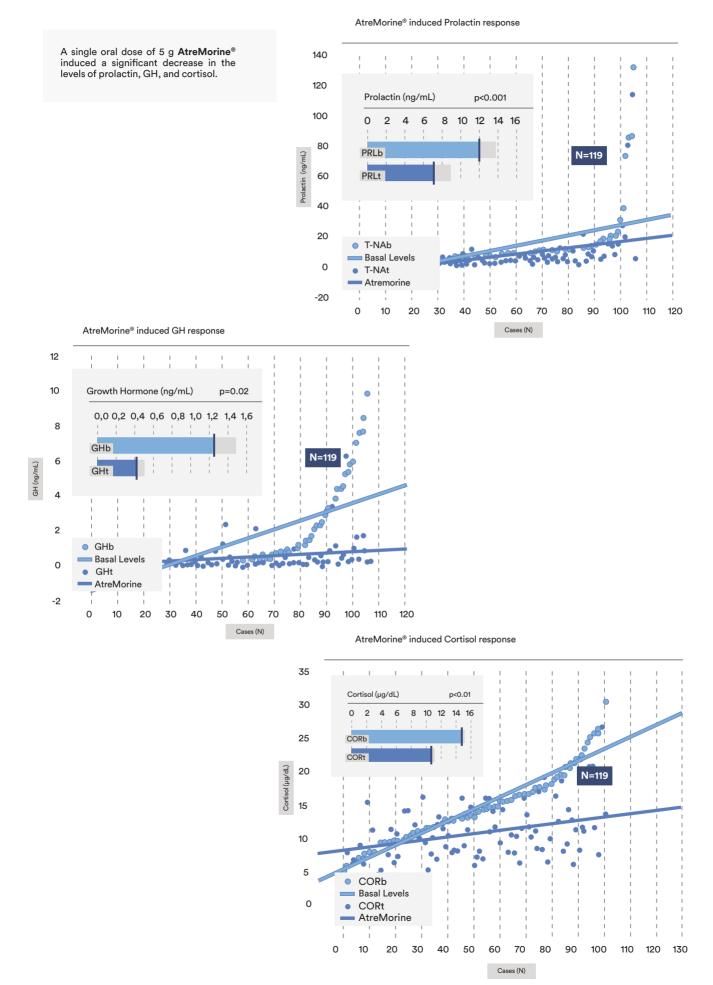
AtreMorine[®] induced noradrenaline response

AtreMorine® induced adrenaline response



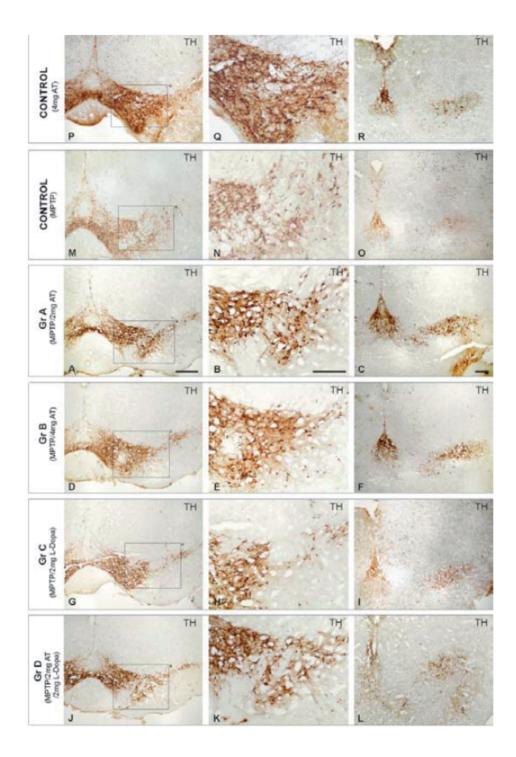
A single oral dose of 5 g of **AtreMorine®** increased noradrenaline and adrenaline levels in parkinsonian patients, while serotonin levels remained unchanged.

03. Hormone effects of AtreMorine[®] in parkinsonian patients.



04. AtreMorine[®] protects against MPTP-induced dopaminergic neurodegeneration.

Comparative photomicrographs of dopaminergic immunoreactivity (TH) in the substantia nigra of MPTP mice with different treatments. Transverse brain sections of mice from groups A and B, treated with AtreMorine[®] (2 and 4 mg), show a remarkable neuroprotective effect by reducing the dopaminergic neuronal degeneration in the substantia nigra.

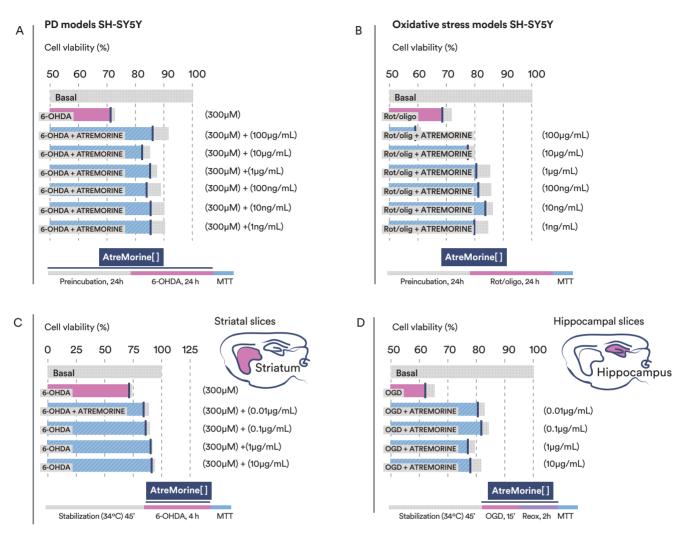


MPTP, neurotoxic that simulates degeneration of neurons affected by Parkinson's Disease; L-Dopa (Sinemet®), palliative pharmacological treatment. AT, dose of AtreMorine® administered together with diet in animal models of PD.

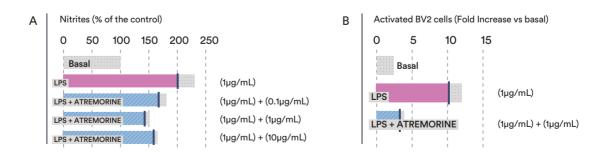
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05. Neuroprotective and antiinflammatory effects of AtreMorine[®] in several *in vitro* models of Parkinson's disease and oxidative stress.



Neuroprotective effect of AtreMorine® against oxidative stress and 6-OHDA Parkinson's disease model (PD). SH-SY5Y cells were treated with 6-OHDA or with the toxic combination of rotenone plus oligomycin A (rote/oligo, oxidative stress model) for 24 hours, and to evaluate the protective effect of AtreMorine®, increasing concentrations were added (A,B). To test AtreMorine® in a PD model, rat striatal slices were treated with 6-OHDA for 4 hours and, subsequently, rat hippocampal slices were subjected to 15-minute oxygen and glucose deprivation followed by 2-hour reoxygenation period (OGD/Reox) as an oxidative stress model (C,D).



Antiinflamatory efficacy of AtreMorine[®] in BV2 microglia cells in response to LPS (a TLR4 agonist; a neuroinflammatory model). Microglia BV2 cells were treated with increasing concentrations of LPS in the absence or the presence of AtreMorine[®] for 24 h. Panel (A) shows AtreMorine[®] reduction of nitrite release elicited by LPS. Panel (B) shows statistics of the effect of AtreMorine[®] on activated phenotype elicited by LPS treatment.