



PHARM  ACTIVE
BIOTECH PRODUCTS

Your success is our success

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NEW LABORATORIES!

Innovation Leadership

Expert selection of innovative biomolecules with high added value:

 **Worldwide leaders** in saffron and aged black garlic extract

3 Granted patent

45 International Trademarks

10 Millions of potential Audience (affron[®], ABG10+[®])

Bring science to your formulations with evidence-based ingredients

+35 Scientifics studies / Poster published

 Presentations at scientific congresses

 Fully equipped R&D & Quality laboratories

10 Human clinical studies

Large scientific team
(R&D + Quality)

45% | 



affron[®]

The ally your mind needs

- **Premium Saffron** Ingredient (*Crocus sativus* L.).
- **Standardized to** Lepticrosalides[®] by HPLC.

PHARM^ΔACTIVE
BIOTECH PRODUCTS



Stress & Sleep statistics

- Workplace stress impacts mortality and health costs in the United States leading nearly 120,000 deaths and nearly \$190 billion in spending each year¹.
- Between 10% and 30% of adults struggle with chronic insomnia².
- Around 75% of adults with depression suffer from insomnia³.

Stress & Sleep Market?

Global stress relief supplements market size is projected to register a CAGR of 6.75% and **reach a value of € 756.6 million** by 2028⁴.

The market for **sleep supplements is more than twice** the size it was in 2017⁵.



Saffron Sleep & Stress Market grows by 22% each year



Old Friends consumed to manage stress



Lemon Balm



Valerian



Rhodiola

Old Friends consumed to improve sleep



Passionflower



Lavender



Chamomile

affron[®]
The ally of the mind



PHARM  CTIVE
BIOTECH PRODUCTS

9 human clinical studies published

Unique with dose-response studies^{1,8}

Rapid absorption in 1 hour¹⁰

Proven bioavailability (pharmacokinetics study)¹⁰

Lowest dosage: 14 mg x 2/day

3 granted Patents

Most awarded saffron extract

Made in Spain DNA certified



Unlock your potential with **affron**[®]

A ver con JM



(1) Kell G., et al. Complement Ther Med. 2017 Aug; 33:58-64; (2) Lopresti AL., et al. J Affect Disord. 2017 Jan 1; 207:188-196; (3) Lopresti AL., et al. J Affect Disord. 2018 May; 232:349-357; (4) Lopresti AL., et al. J Psychopharmacol. 2019. Nov;33(11):1415-1427; (5) Almodovar P., et al. Oral communication. Presented at 3rd W. Congr. on Nutr., Diet. and Nutra. 2019, Prague, Czech Republic. (6) Lopresti et al. J Clin Sleep Med. 2020;10.5664; (7) Lopresti AL., et al. Journal of Menopausal Medicine. 2021;27:1-13; (8) Lopresti AL., et al. Sleep Medicine 86 (2021) 7-18 (9) Lopresti AL et al, **International Society of Sports Nutrition Journal**, 2022. (10) Almodovar P., et al. Evi.-Based Compl. & Alter. Med. 2020. ID 1575730; (11) Spanish Patent

9 Human clinical studies published and pharmacokinetics

+740 participants

Study Reference	Evidence field
Kell G., et al. <i>Complementary Therapies Medicine</i> 2017 Aug; 33:58-64	
Lopresti AL, et al. <i>J Psychopharmacol.</i> 2019 33:1415-1427	Improve mood, occasional stress, tension, and associated anxieties
Lopresti AL, et al. <i>J Affect Disord.</i> 2017 Jan 1;207:188-196	
Lopresti AL, et al. <i>J Affect Disord.</i> 2018 May; 232:349-357	Mood improvement and associated anxieties in adolescents
Nishide, A, et al. <i>Japanese Pharmacology and Therapeutics.</i> 2018 (8); 46:1407-1415	
Lopresti AL, et al. <i>J Clin Sleep Med.</i> 2020	Improve occasional sleeplessness
Lopresti AL, et al. <i>Sleep Medicine</i> 86 (2021) 7-18	
Lopresti AL, et al. <i>Journal of Menopausal Medicine.</i> 2021;27:1-13	Mood improvement in menopausal women
Lopresti AL, et al. <i>Journal of the International Society of Sports Nutrition</i> 19:1, 219-238,	Mental and physical effects of affron® during sports activities.
Almodovar P, et al. <i>Evidence-Based Complementary and Alternative Medicine</i> 2020	Pharmacokinetics

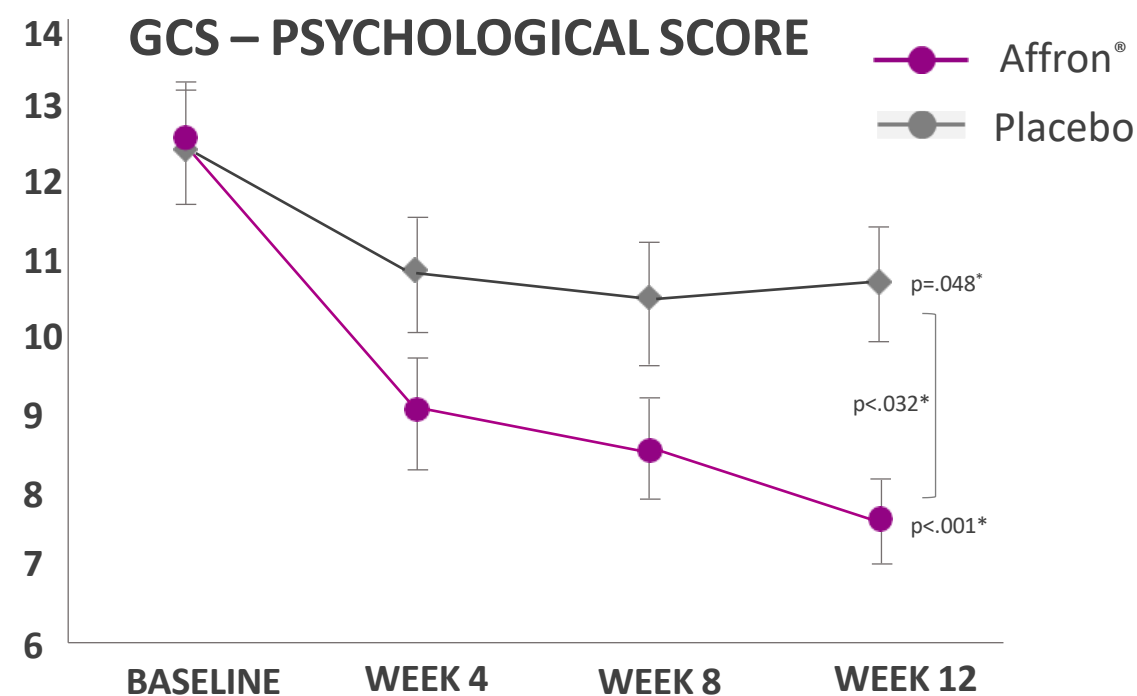


Affron® improved mood on menopausal women with no estrogenic effect

In a randomized, double-blind, placebo-controlled study (N=128) **affron® intake of 28mg/day for 12 weeks, significantly improved the psychological aspects** of the Greene Climacteric Scale (GCS), characterized by:

- **33%** reduction in anxiety symptoms
- **32%** reduction in depression symptoms

Unique saffron extract tested for the psychological symptoms of menopause*



PSYCHOLOGICAL SYMPTOMS

1. Heart Beating quickly or strongly
2. Feeling tense or nervous
3. Difficulty in sleeping
4. Excitable
5. Attacks of anxiety, panic
6. Difficulty in concentrating
7. Feeling tired or lacking in energy
8. Loss of interest in most things
9. Feeling unhappy or depressed
10. Crying spells
11. Irritability

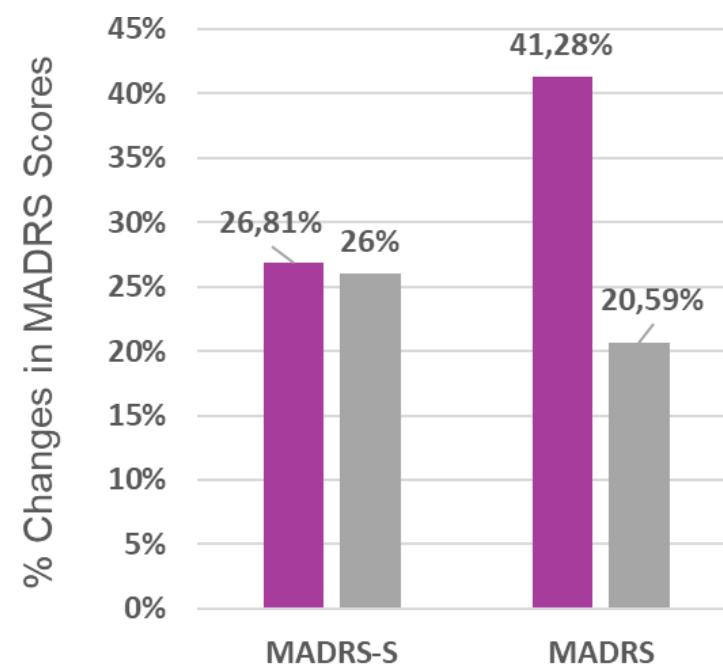
*Female participants aged between 40 to 60 years

Affron® in coadjutant treatment with antidepressants

In a randomised, double-blind, placebo-controlled study (N=68), the administration of **affron®** for **8 weeks** was associated with reduced side effects associated with antidepressant intake and increased antidepressant effects in adults currently taking pharmaceutical antidepressants.

Reduction in the depression rating scale MADRS

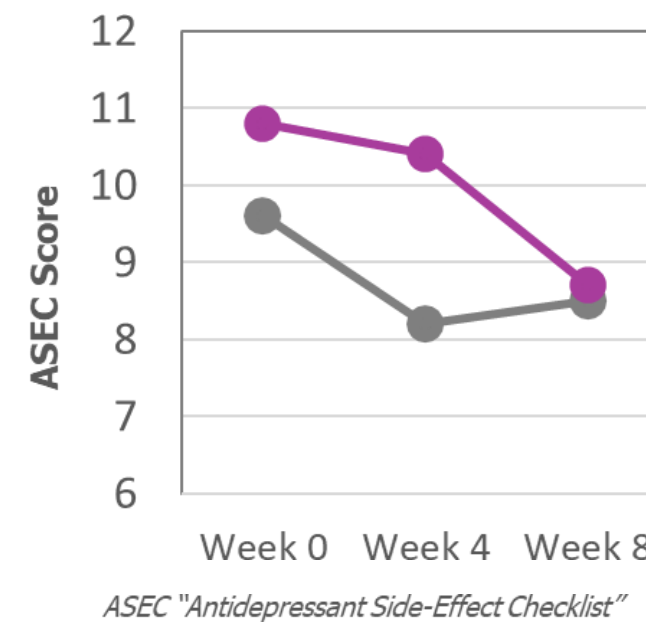
Percentage of reduction in self-report MADRS-S and clinician-rated MADRS over 8-week intervention



MADRS "Clinician-rated Montgomery-Asberg Depression Rating Scale" MADRS-S "Self-rated MADRS"

Reduction in antidepressant side-effects (ASEC)

Reduction in ASEC over time



Consumer Satisfaction Ratings

71% of participants continued taking affron® after the study

73% of participants were satisfied with the affron® consumption

Affron[®] in coadjutant treatment with antidepressants

In a randomised, double-blind, placebo-controlled study (N=68), the administration of **affron[®]** for **8 weeks** was associated with reduced side effects associated with antidepressant intake and increased antidepressant effects in adults currently taking pharmaceutical antidepressants.

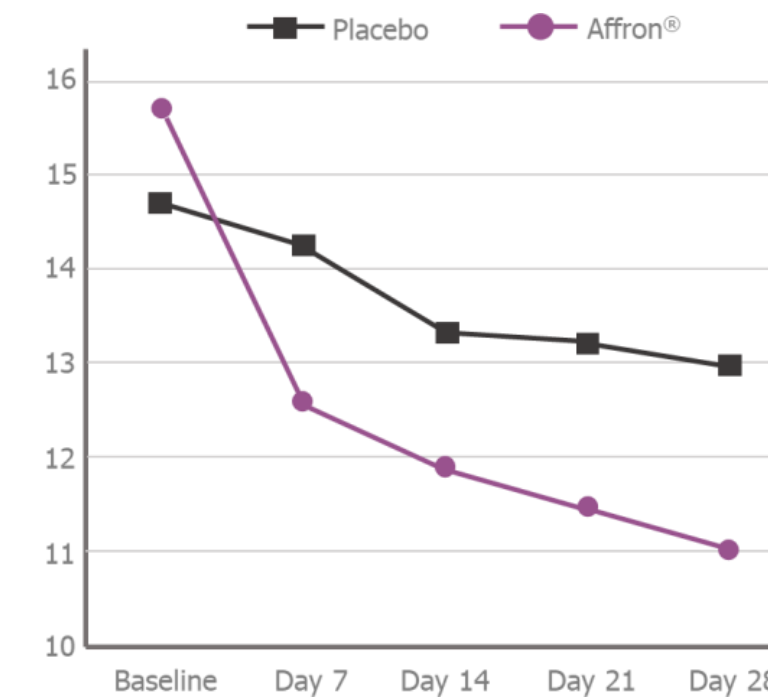
- ✓ **High tolerability with no undesirable effects**
- ✓ **Helps to improve adherence to pharmacological treatment**
- ✓ **Effective**
- ✓ **Safe**

Affron® improving occasional insomnia

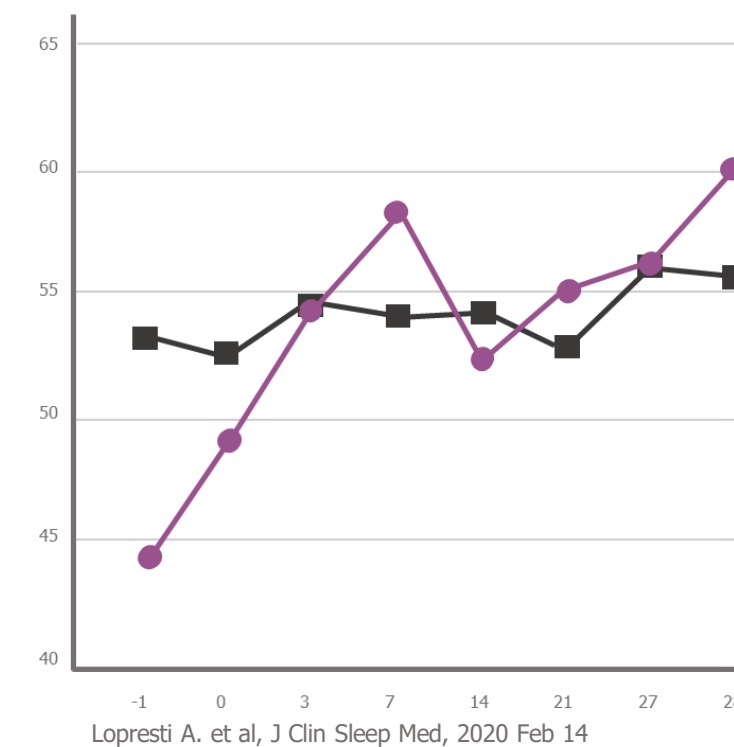
- Affron® intake for 28 days was associated with **greater improvements in:**
 - **Sleep quality** as measured by the ISI, with most changes occurring in the first 7 days of treatment.
 - **Restorative sleep** as measured by the RSQ.
 - Sleep quality and **strong trend suggesting greater reductions in the number of awakenings after sleep onset** and increases in **alertness upon awakening.**
- Affron® intake was **well tolerated and no side effects were associated.**

96% of participants in the affron® group were satisfied with their tablet intake.

Insomnia Severity Index Score (ISI)



Restorative Sleep Questionnaire Score (RSQ)



Affron[®] improved sleep quality even at 14mg

A single dose of affron[®] 1 hour before sleep for 4 weeks showed a significant improvement of **24.6%** of sleep quality compared to placebo (p<0.001).

Sleep Quality improvements after 4 weeks (PSD)

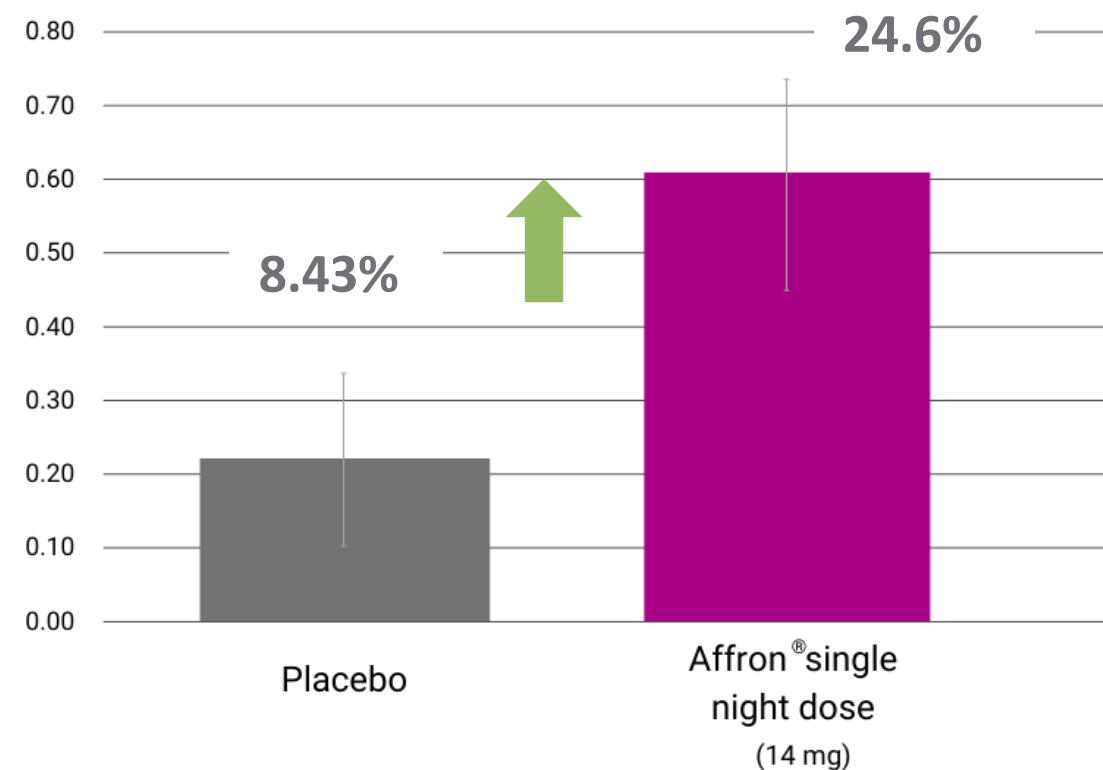


Figure 1. Changes in sleep quality ratings from baseline to week 4

By the very first time, a single dose of affron[®] 1 hour before sleep revealed an increase in melatonin concentration from baseline to week 4 compared to the placebo (p=0.036).

Change in evening Melatonin (pg/ml)

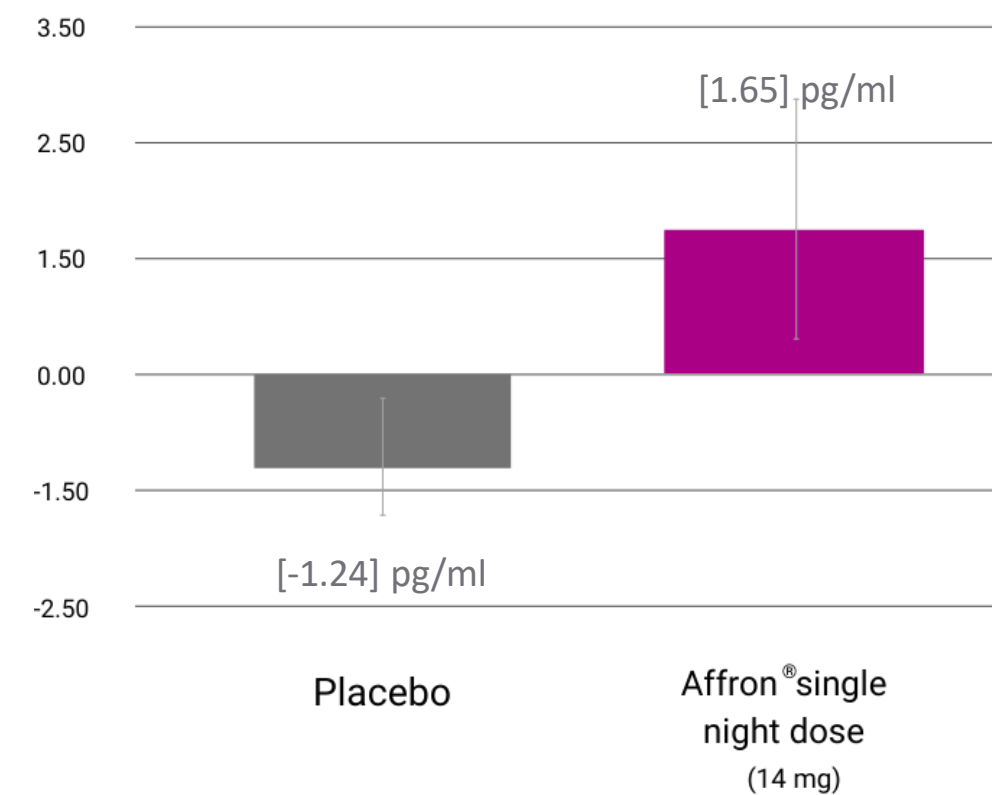


Figure 2. Changes in salivary hormone (melatonin) concentrations from baseline to week 4.

ABG+[®]

Tune up your body's engine

- Premium Black Garlic ingredient (*Allium sativum* L.)
- Standardized to S-allyl-cysteine (SAC) by HPLC.



Cardiovascular health statistics

- Approximately **40% of the adult population of the European Union** suffers from high blood pressure¹.
- **New era of hypercholesterolemia and hypertension affecting 1.3 billion people** worldwide causing major risk of stroke and cardiovascular disease¹.

Cardiovascular Market

*"The **global heart health supplements market** was valued at **€ 4.79 billion in 2022**. It is expected to grow at a CAGR of **5.43%** in the forecast period of **2023-2028 to reach a value of € 6.02 billion by 2028**".*



General concern about Monacolin K

- EFSA new dose decreased to 3mg monacolin K
 - Loses EFSA Pending Claims
- Reported side effects



Aged Black Garlic

The ideal companion to complement the Monacolin K thanks to:

- Proven **cardioprotective effect**¹⁻³
- Superior **antioxidant capacity**¹⁻³
- **EFSA Pending Claims available**
- **High tolerability with no side effects**

Cardiovascular system, cholesterol	1991	"Maintaining the proper functioning of the heart / maintaining the proper level of cholesterol / maintaining the proper level of homocysteine".
		"Supports Normal Homocysteine Levels / Supports Normal Cholesterol Levels".
	1992	"Contributes to good cholesterol / Helps control cholesterol / Supports circulation".
	1991	"Reduces the homocysteine. Reduces platelet aggregation. Improves peripheral blood circulation. Prevents LDL oxidation. A powerful antioxidant that prevents cells from turning rancid, prevents cholesterol oxidation and slows down premature ageing of the body".

ABG+[®]
Tune up your body's engine



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**1 Clinical Study Published
1 Clinical Study Ongoing**

**Proven cardioprotective
effect¹⁻³**

**Superior antioxidant
capacity that
stimulates immunity⁴**

**100% Spanish *Allium
Sativum* L. DNA-Certified**

Different standardization
available to **adapt your
formulations**



Traditional Asian roots that
appeals to consume as
natural, effective and safe
solution

Protect your
**cardiovascular
health** with **ABG+[®]**



(1) García-Villalón AL., et al. Journal of Functional Foods. 2016. 27: 189-200; (2) Amor S., et al. Nutrients. 2019; 11, 153, (3) Human Clinical Study, Pending to publish. (4) Purev U, et al, 2012 Aug, 34(4):651-660. Epub 2012.

New Clinical Study Ongoing

- **Design:** this is a Double-blind, randomized study with placebo.
- **Objective:** evaluate the effect of daily intake of ABG10+[®], in combination with dietary recommendations, on blood pressure and endothelial health in individuals with moderate hypertension.

Outcomes:

Blood sample collection and biochemical determinations in blood:

- Basic blood biochemistry
- Blood antioxidant capacity
- Blood ACE activity
- Plasma nitric oxide derivatives
- Plasma cytokine profile

Blood Pressure determination

Endothelial function

- **Dosage:** 250 mg.
- **Participants:** 80 (Age between 18-65 years old).
- **Study duration:** 12 weeks.



Estimated date of
publication: Q2-3 2023



Preliminary results:

- **SAC decreases ACE enzyme activity** responsible for transforming angiotensin I into angiotensin II (angiotensin II has a vasoconstrictor effect).
- Therefore, **ABG+[®] promotes a decrease in vasoconstriction.**
- On the other hand, an **increase in NO concentration**, a molecule with a **vasodilator effect**, has been observed.
- Thus, we can advance **very promising results in both diastolic and systolic pressure.**

liboost[®]

Keep the flame burning

- **Premium Damiana ingredient** (*Turnera diffusa*)
- **Standardized to 1,5% total bioflavonoids** by HPLC.

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Sexual Wellness Market

The sexual wellness market which was **€ 10.3 billion in 2021**, would rocket up to **€ 17.14 billion by 2029**, and is expected to undergo a CAGR of 6.57% during the forecast period 2022 to 2029.

Old Friends consumed as aphrodisiacs



Gingseng



Yohimbe



Maca



Mate



Tribulus



Sexual dysfunction statistics

Research identified a deterioration of women's sexual function across countries, with an emphasis on sexual desire during and after COVID-19 pandemic.



What are the types of sexual dysfunction?

- **Desire disorders:** lack of sexual desire or interest in sex.
- **Arousal disorders:** inability to become physically aroused or excited during sexual activity.
- **Orgasm disorders:** delay or absence of orgasm (climax).
- **Pain disorders:** pain during intercourse.





1st natural ingredient for unisex Performance & Sexual Desire

**1 Consumer Study
1 Clinical Study Ongoing**

**Around 80% of
participants would
purchase or recommend
Liboost^{®1}**

**Genuine damiana
ingredient (*Turnera diffusa*)**

**Raw material from
Mexico.
Manufactured in Spain**

**Standardized to 1.5%
total bioflavonoids by
HPLC**

**Lowest daily dosage:
500 mg/day**

**Extra quality control
to prove the absence of
sildenafil**



(1) Proprietary consumer study, 2019.



Liboost[®]: Customer Study Research

83% of participants (including men and women) would buy Liboost[®] after trying it for 4 weeks.

85% of participants (including men and women) would recommend the Liboost[®].

2/3 participants considered that 1 month of treatment was correct.

“Remarkable purchase intention”

New Clinical Study Ongoing

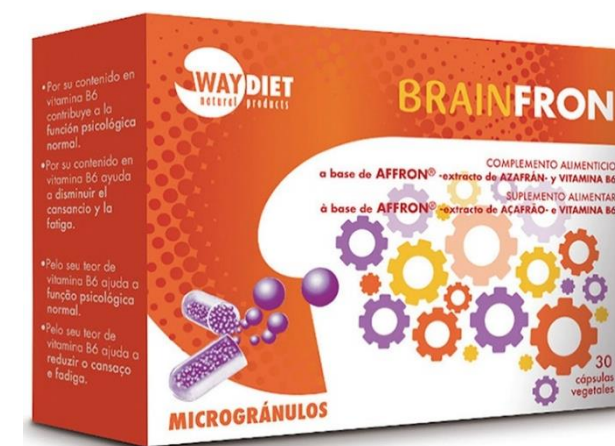
To evaluate the effect of a food supplement in healthy subjects who declare low sexual desire.

- **Design:** this is a clinical, prospective, randomized and double-blind study.
- **Outcomes:**
 - Subjective questionnaire: Percentage of participants reporting a change in their sexual desire.
 - SDI (Sexual Desire Inventory).
 - FSFI in women (Female Sexual Function Index).
 - IIEF in men (International Index Erectile Function).
- **Dosage:** 500 mg.
- **Participants:** 110 (Age between 18-65 years old)
- **Study duration:** 8 weeks.



Estimated date of
publication: Q4 2023

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HOW TO CREATE INNOVATIVE PRODUCTS?



libboost[®]

Libby : Daily wellness

INGREDIENTS:

Libboost [®]	—————	300mg
Affron [®]	—————	28mg
Panax Notoginseng		200mg
Vitamin C		200mg
Rice Bran Extract		135mg
Potassium		120mg
Theacrine		40mg
Rice Concentrate		15mg
I-Ergothioneine		250mcg
Vitamin B12		200mcg

DESCRIPTION:

A clean-label women's supplement that helps balance mood, improve energy, manage stress, promote restful sleep, and support sexual health.

MAIN COUNTRY OF DISTRIBUTION: **USA**





Ingredients:

Liboost®	200mg
Dry extract of maca	100mg
Dry extract of Tribulus terrestris	50mg
Dry extract Muira puama	50mg
Zinc	5mg
Selenium	27,5mg
Arginine	50mg

Description:

Works as a vigor enhancer for men who want to achieve in a few minutes a greater potency and vigor during sexual intercourse, as well as to intensify their performance when having intimate relations.

Main Country Of Distribution: Spain



Ingredients:

Liboost®	300mg
L-Arginine	830mg
L-Citrulline	350mg
Libestim	300mg
Extract of Tribulus terrestris	300mg
Taurine	100mg
Zinc	10mg
L-tyrosine	100mg
Vitamin B6	1,4mg

Description:

Satisfying the need to support your libido
Having a decrease in male vigour
Wanting to preserve or strengthen his erectile function.

Main Country Of Distribution: France



Ingredients:

ABG10+[®]	750 mg
Of which S-allyl-L-cysteine	1,5 mg

Description:

Black garlic extract for blood pressure, cholesterol and cardiovascular health.

Main Country Of Distribution: Germany



Ingredients:

ABG10+[®]	250mg
Choline (Vitacholine [®])	82,5mg
Grape Seed Extract	50mg
Astragalus Root Powder	50mg
Coenzyme Q10	30mg
Iron	7mg
Black Pepper Extract	5mg
Vitamin B6	1,4mg
Thaimin	1,1mg
Folic Acid	200ug
Vitamin K	75ug
Vitamin B12	10ug

Description:

Contribute to the normal function of the heart.

Main Country Of Distribution: UK



Ingredients:

ABG10+[®]	250mg
Red yeast rice	53mg
Coriander fruit extract	50mg
Policosanols	20mg
Coenzyme Q10	15mg

Description:

The natural solution to control cholesterol, helps maintain normal cholesterol levels.

Main Country Of Distribution: Spain



Ingredients:

ABG10+[®] ————— **125mg**
Organic Moringa 265mg

Description:

Help support cardiovascular health
Protect and support your immune system
Help protect the gut

Main Country Of Distribution: UK



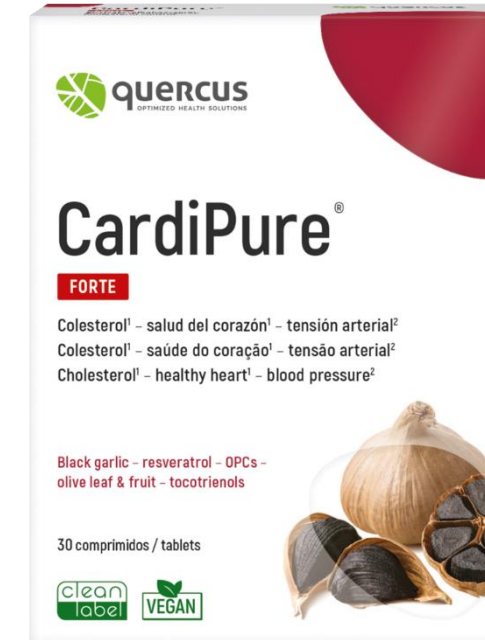
Ingredients:

ABG10+[®] ————— **250mg**
Polycosanol 90% 50mg

Description:

Improves blood circulation
Contributes to good cardiovascular health
Maintains normal cholesterol levels

Main Country Of Distribution: France



Ingredients:

ABG25+[®] ————— **200mg**
ApplePhenon[®] (*Malus domestica*) 600mg
Olivie[®] (*Olea europaea*) 500mg

Description:

Supports cardiovascular health, protects cells against oxidative stress, controls cholesterol levels, promotes heart health, and contributes to maintaining normal blood pressure.

Main Country Of Distribution: Belgium



Ingredients:

Affron® _____ **28mg**
Rhubarb extract (ERr-731®) 4mg

Description:

Uniquely designed to support you during your change of life. Helps promote a positive mood.

Main Country Of Distribution: USA



Ingredients:

Affron® _____ **28mg**
Fish oil (33% EPA, 22% DHA) 740mg
Hypericum perforatum extr. 230mg

Description:

Contributes to emotional well-being and promotes a good night's sleep. Promotes good mood and general relaxation.

Main Country Of Distribution: France



Ingredients:

Affron®	28mg
KSM66®	350mg

Description:

For normal sleep and periods of anxiety and nervousness.

Main Country Of Distribution: Sweden

Ingredients:

Affron®	30mg
KSM66®	340mg
<i>Magnolia officinalis</i>	150mg
<i>Cordyceps sinensis</i>	150mg
Thiamin	20mg
Riboflavin	6mg
Niacin	25mg
Vitamin B12	25µg
Biotin	100µg
Pantothenic Acid	18mg
Magnesium	75mg
Zinc	10mg

Description:

Innovative capsules to support your daily Sleep, Mood, Focus and Joint health.

Main Country Of Distribution: UK



HOW TO CREATE INNOVATIVE PRODUCTS?

LYMA : There's no better feeling than feeling your best.



INGREDIENTS:

Affron ®	28mg
HydroCurc™	600mg
Vita-Algae D3™	2000 i.u.
Cognizin®	250mg
K2Vital Delta®	75ug
Wellmune® Blend	250mg
Levagen®+	350mg
KSM-66 Ashwagandha®	600mg
Lycored Lycopene™	30mg
Cynatinew HNS®	500mg

DESCRIPTION:

Engineered to optimise your body so you can look and feel your very best.

MAIN COUNTRY OF DISTRIBUTION: UK

affron®



What people say...

I was surprised. Don't expect the effect to be immediate, as the weeks went by I noticed that my sexual desire was improving, and I am still taking it today. My wife also takes it and has noticed the positive effects of this product on her libido.

Matthew

liboost[®]

This is an easy way to take daily garlic. I was surprised that I could not smell the garlic when I opened the bottle and I was wondering if it was even as strong as my usual brand. I continue to take it because I researched the benefits of black garlic and it seems to be more effective.

M.Chan

ABG+[®]

I bought this hoping it would help boost my mood a little through the winter months. After one month of taking it daily, not only are my moods far more positive and stable (I really was not expecting such a noticeable change), but my sleep was better - that was a nice surprise!

Paul L. *affron*[®]

THANK YOU FOR YOUR ATTENTION

libboost[®]

ABG+[®]

affron[®]

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