

b Bioiberica



Mobility: a growing market

Consumers of all ages are increasingly concerned with keeping physically active as a way to keep healthy. However, many of them have mobility problems.

4 out of every 5 menopausal women report joint discomfort, as a result of decreased oestrogen production.² It is estimated that 45% of people over 65 suffer from joint problems¹ and 25% suffer from 43% of consumers sarcopenia, the loss of muscle aged 40 to 65 Exercise is a risk factor mass due to aging.4 suffer from joint for developing joint and muscle discomfort.1 conditions. Studies have shown that running 30km/week multiplies the probability of

MIDDLE AGED ADULTS

MENOPAUSAL WOMEN

SPORTY PEOPLE

developing osteoarthritis by 2.4.3

SENIORS



What is Mobilee®?

Mobilee is a patented ingredient with a high concentration of hyaluronic acid that supports mobility.

More than hyaluronic acid

Mobilee® is a rooster comb extract, naturally rich in:

Hyaluronic Acid (60-75%) Polysaccharides (>10%) Collagen (>5%)



How does Mobilee® work?

Mobilee® increases the synthesis of hyaluronic acid

In joint discomfort conditions there is a reduction in the quantity and quality of hyaluronic acid in the synovial fluid of the joints.⁵

Hyaluronic acid is a key molecule in joint lubrication.⁶

Mobilee® stimulates the synthesis of endogenous hyaluronic (eHA) acid in synovial cells.⁷ (Figure 1)

More potent than fermentation hyaluronic acid

The effect of Mobilee, stimulating the endogenous synthesis of hyaluronic acid is more potent than the effect of pure fermentation hyaluronic acid.8 (Figure 2)

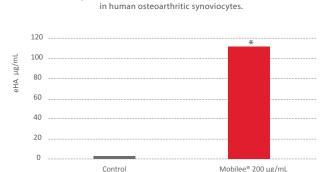
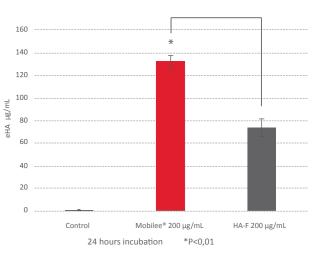


Figure 1. Effect of Mobilee® on the synthesis of eHA

Graphic addapted from the Torrent A, et. al. Osteoarthritis Cartilage.2009;17(1):S277-278

Figure 2. Effect of Mobilee® and fermented HA on endogenous synthesis of HA in human osteoarthritic synoviocytes.



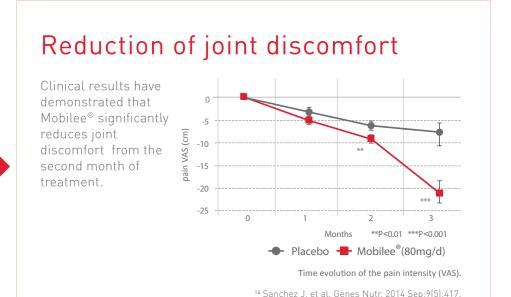
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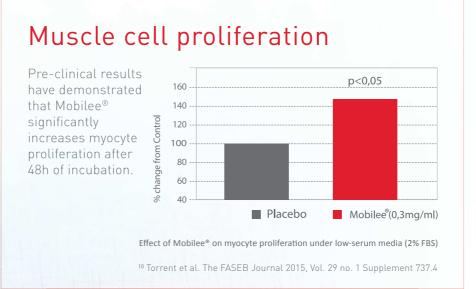
mobilee® enjoy moving

Mobilee® scientific evidence

Mobilee® is the result of years of research carried out by Bioiberica. The efficacy of Mobilee® has been demonstrated in more than 10 scientific publicacions⁷⁻¹⁸. It has been shown that Mobilee® improves mobility by reducing joint discomfort¹⁴ and increasing muscle strength¹³.

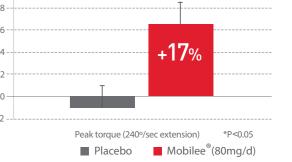








months of treatment.



Increase in maximum peak torque compared to baseline values (Nm) for knee extension at 240º/s.

13 Martinez-Puig D, et al. Mediterr J Nutr Metab. 2013.6:63–68.



Why Mobilee®?

1) Efficacy and safety

There is a significant body of scientific evidence supporting the efficacy and safety of Mobilee®.

Mobilee has been tested in:

- 5 clinical studies. 13-16,18
- 6 pre-clinical studies.⁷⁻¹²
- 1 nutrigenomic study. 14
- 1 meta-analysis.¹⁷



2) Easy to formulate

Thanks to its low dose (80 mg) it can be easily included in formulations with other ingredients.

Moreover, Mobilee®'s excellent organoleptic properties make it suitable for any product format.

3) Solid regulatory framework

Mobilee® use in food and food supplements has been authorized by the main competent authorities:

- Europe: Novel food in dairy matrix (European Comission).
- USA: Generally Recognized as Safe (GRAS) status.
- Australia and New Zealand: Complementary medicine ingredient (TGA) and food ingredient (FSANZ).
- Brazil: Novel Food Ingredient

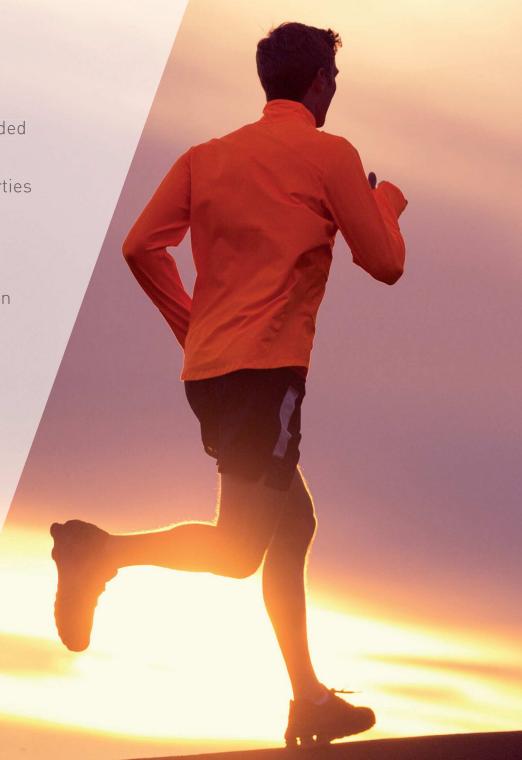














About Bioiberica

A life science company

Bioiberica is a global Life Science company specialised in the identification, extraction and development of biomolecules of high biological and therapeutic value for the pharmaceutical and nutraceutical industries. This specialisation has positioned Bioiberica among the leading Heparin API manufacturers and as a world reference in the research, production and sale of other animal derived APIs and ingredients such as Chondroitin Sulphate, Glucosamine, Hyaluronic Acid, Native Type II Collagen or Thyroid API.



Experts in joint health

Since 1975, Bioiberica has consolidated its position as world reference in jo health and mobility thanks to a const commitment to science and research. Today, more than 20 million patients worldwide have been treated with our ingredients for joint health.



Bioiberica places all of its medical, scientific and marketing knowledge about joint health and mobility at the client's disposal for the joint development of the market.

Your success is our goal!

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- 5. Smith MM. Ghosh P. Rheumatol Int (1987):7:113-122
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- 9. Torrent A, et al. Osteoarthritis Cartilage. 2010;18(2):S246-247 0. Torrent et al. The FASEB Journal, 2015; Vol. 29 no. 1 Supplement 737.4
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- 14. Sánchez J et al. Genes Nutr. 2014 Sep;9(5):417.
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18. Kalman, et al. Nutrition Journal 2008:7(3):1-9.

These statements have not been evaluated by competent food authorities. This information is only for business-to-business use. The product is not intended to diagnose, treat, cure, or prevent any disease. These statements are not meant to be addressed to final consumers and therefore, BIOIBERICA assumes no liability for the statements that the producer of the final product may include in its own publicity to





