

Mobilee®

Hyaluronic acid matrix ingredient

Use: **Mobility (joint and muscle health)** Dose: **80mg/day**
Application: **dietary supplements and functional foods (dairy)**

Mobilee® is a **hyaluronic acid matrix ingredient** and **patented extract** containing hyaluronic acid, mucopolysaccharides and collagen. With Mobilee®, it is possible to support joint and muscle health at a low dosage thanks to the synergistic effect of its three naturally-occurring components.

Effects of Mobilee®



Increases the endogenous synthesis of hyaluronic acid by synovial cells more than 200-fold



Increases muscle cells proliferation



Lowers Prostaglandin E2, which is linked to inflammation



Supports muscle strength



Reduces synovial effusion and joint discomfort after three months

Mobility & healthy aging

Consumers of all ages are interested in mobility products that will help them maintain an active lifestyle and keep them healthy. However, joint discomfort is a common condition that can decrease an individual's ability to move freely, affecting their quality of life.

47% of people globally say they experience joint discomfort¹

Do more with Mobilee®

Develop cutting-edge mobility products that simultaneously target joint and muscle health.

- **Easy to formulate:** highly efficacious at 80mg/day and excellent organoleptic properties
- **Science-backed:** efficacy supported by a robust body of scientific evidence
- **Solid regulatory framework:** Novel Food (EU Commission) and GRAS status (FDA)
- Supported by Bioiberica's **20+ years' experience in joint health and mobility**

1. Stimulates the endogenous synthesis of hyaluronic acid

Mobilee® increases endogenous HA secretion by more than 200-fold vs placebo and 1.8-fold vs fermentation HA.

Torrent, A. et al. Osteoarthritis and Cartilage, 2009;17:S278-279.

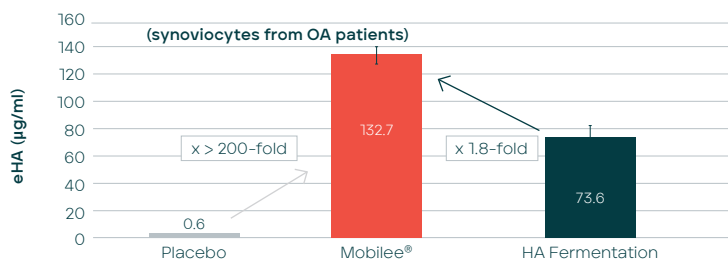


Fig 1. Effect of Mobilee® on endogenous synthesis of HA in human osteoarthritic synoviocytes after 24h.

2. Lowers Prostaglandin E2 (PGE2)

Mobilee® lowers PGE2 levels, which plays a key role in the inflammatory response.

Torrent, A. et al. Osteoarthritis and Cartilage, 2010;18:S246-247.

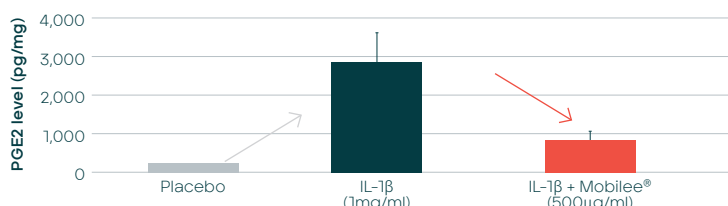


Fig 2. Effects of Mobilee® on PGE2 levels (pg/mg of total protein) induced by IL-1β in human dermal fibroblast cells.

3. Reduces joint discomfort

Daily consumption of a yoghurt supplemented with 80mg of Mobilee® significantly reduced pain intensity from the second month of treatment, compared to the placebo group.

Sánchez, J. et al. Genes Nutr, 2014;9:417.

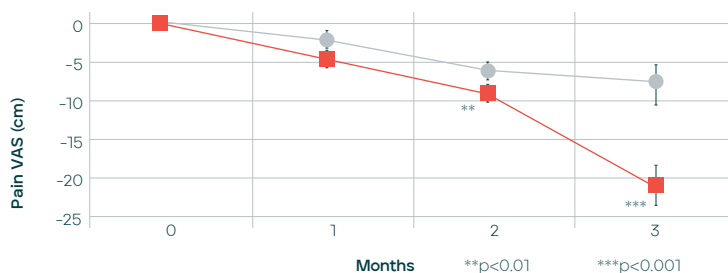


Fig 3. Time evolution of the pain reduction (VAS). **p<0.01, ***p<0.001.

4. Supports muscular strength

Three months of oral administration of a yoghurt product containing Mobilee® in healthy individuals with knee discomfort provided improvements in muscle strength.

Martínez-Puig, D. et al. Mediterr J Nutr Metab, 2013;6:63-68.

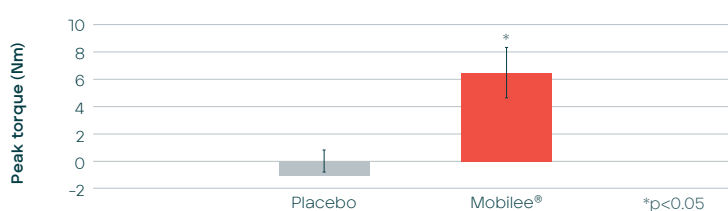


Fig 4. Increase in maximum peak torque compared to baseline values (Nm) for knee extension at 240°/s. *p<0.05.

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References 1) FMCG Gurus, 2018/2019.

About Bioiberica

Bioiberica is a global Life Science company with more than 45 years' experience in the identification, extraction and development of biomolecules of high biological and therapeutic value for the pharmaceutical and nutraceutical industries. Bioiberica has consolidated its position as an expert in joint health and mobility, thanks to a constant commitment to science and research.

To innovate in the joint health market using Bioiberica's Mobilee®, contact us today.

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