

naticol®

The Fish Collagen Peptides



Stronger joints for an active life



JOINT



MOBILITY



PHYSICAL
PERFORMANCE



QUALITY
OF LIFE

SUPPORT JOINT COMFORT AND MOBILITY

Comfortable and healthy joints are essential for maintaining a good quality of life, whether for staying active as we age or supporting the demands of a dynamic lifestyle. Collagen plays a critical role in maintaining cartilage, the natural cushion within our joints but also ligaments tendons and bones. However, as collagen levels naturally decrease over time, this can lead to joint wear and reduced mobility, impacting daily comfort and activity.

Naticol® helps preserve the collagen found in joint tissues. Backed by several clinical studies, Naticol® fish collagen peptides have demonstrated their ability to improve joint comfort, body strength and performance as well as mobility, offering a tailored solution to meet the needs of every lifestyle.



Weishardt

Since 1839

The strength of tradition, the power of expertise

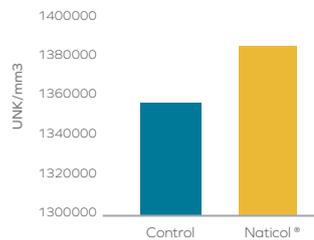
Naticol® has been shown to support joint mobility and well-being

Joint discomfort and stiffness can arise when cartilage, tendons and ligaments wear down mainly due to a decline in collagen levels, leading to reduced mobility and flexibility. Joint function can be supported by supplementing with 10 g per day of Naticol® fish collagen peptides.

Naticol®'s benefits on joint comfort, mobility, physical performance, body strength and muscle mass are supported by two clinical studies conducted according to French regulations and approved by an Ethics Committee (CPP). Both studies were double-blind, randomized, placebo-controlled and involved validated assessments to ensure the reliability of the results. Moreover, Naticol® has been proven to be effective in increasing bone mineral density in an experimental in vivo model.

These results are intended for professionals only. Naticol® is an ingredient designed to be incorporated into finished products.

IN VIVO



Third party testing, unpublished data

BONE MINERAL DENSITY

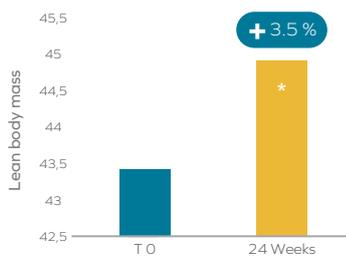
Bone density was assessed using CT tomography in ovariectomized osteopenic mice. The results show an **increase bone density** in the group of mice treated with Naticol® compared to the control group.

Without Naticol®
With Naticol®

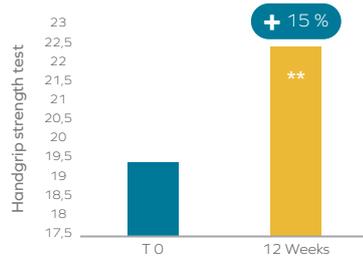
CLINICAL

BODY STRENGTH

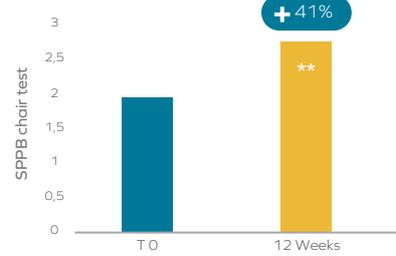
LEAN BODY MASS (1)



UPPER BODY MUSCLE STRENGTH (1)



LOWER BODY MUSCLE STRENGTH (2)



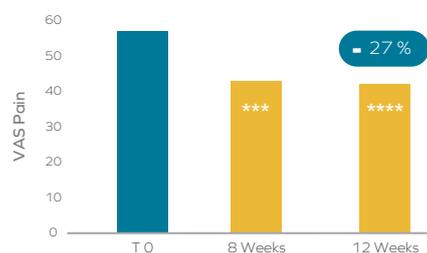
As we age, maintaining muscle strength is crucial for mobility and overall physical performance. Clinical studies show that supplementation with Naticol® led to a **3.5% increase in lean body mass** after 24 weeks, a key factor in enhancing strength and endurance. Additionally, **upper body strength improved by 15%**, reinforcing overall physical performance, while **lower body strength saw a 41% increase**, indicating better joint function and flexibility. These findings highlight Naticol®'s significant role in supporting physical condition and functional abilities.

DISCOMFORT RELIEF

JOINT DISCOMFORT (2)

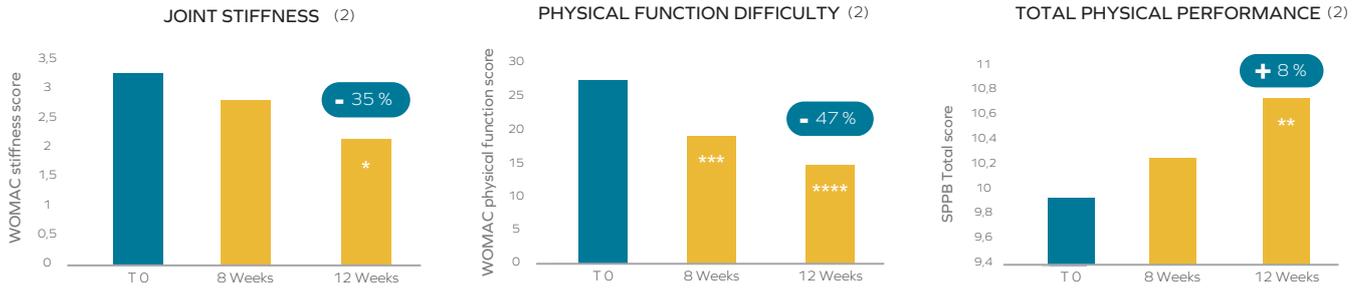


SENSATION OF PAIN (2)



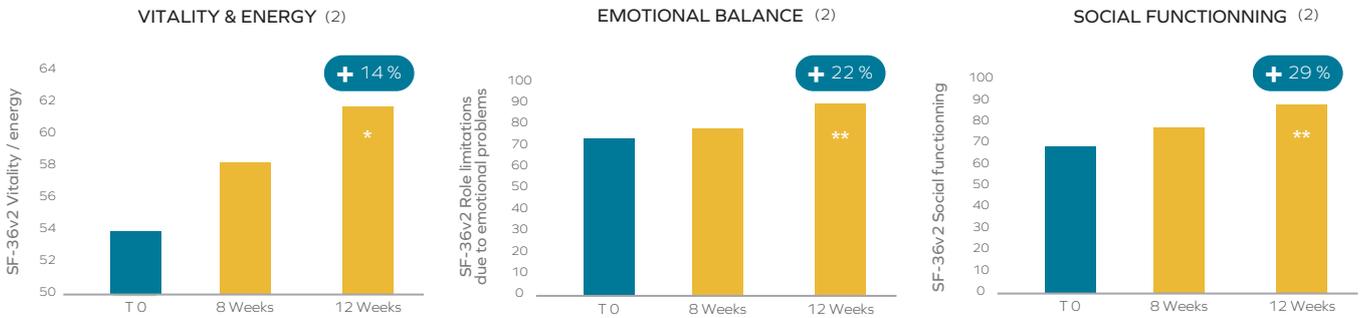
Joint discomfort can significantly impact daily activities and overall quality of life. Naticol® supplementation led to a remarkable **46% reduction in joint discomfort**, promoting greater ease of movement and well-being. Additionally, the sensation of discomfort, as assessed by the VAS scale, decreased **by 27%**, further contributing to improved physical comfort.

PHYSICAL FUNCTION & MOBILITY



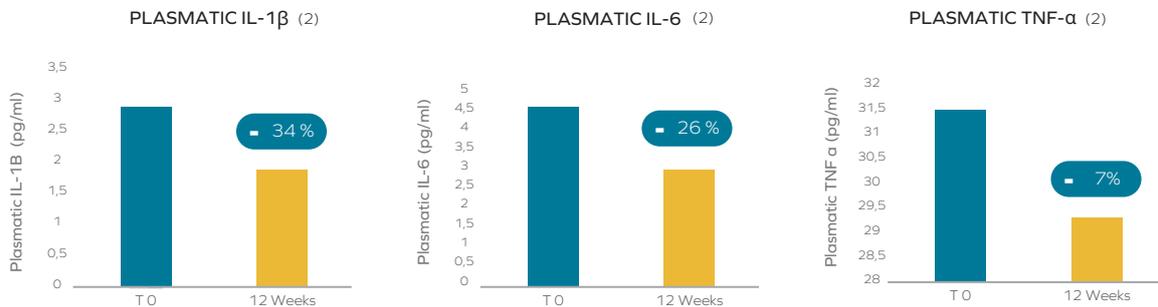
Maintaining joint flexibility is essential for mobility and overall comfort. Naticol® supports mobility **by reducing joint stiffness by 35%** and improving physical function, as shown by a **47% decrease in the WOMAC score**. Additionally, the total SPPB score, which includes body strength, speed and balance, is improved **by 8%**, highlighting the positive impact of Naticol® on strength, mobility and long-term physical well-being.

QUALITY OF LIFE



Naticol® has demonstrated significant benefits in enhancing overall quality of life, as shown through improvements in three key areas. After 12 weeks, participants reported a **14% increase in vitality and energy** levels, highlighting Naticol®'s positive impact on physical and mental stamina. This improvement in energy was accompanied by a **22% enhancement in emotional balance**, reflecting reduced limitations due to emotional challenges. As a result, participants also experienced a **29% improvement in social functioning**, illustrating enhanced participation in daily activities and interactions.

MARKERS OF INFLAMMATION



Naticol® supports joint comfort by influencing key biological markers associated with tissue integrity and overall joint comfort. After 12 weeks of supplementation, participants exhibited a **34% reduction in plasmatic IL-1β**, a **26% decrease in plasmatic IL-6**, and a **7% decrease in plasmatic TNF-α**. The reduction of these inflammatory markers suggest a positive modulation of key parameters linked to joint preservation, highlighting Naticol®'s role in promoting long-term joint well-being and mobility.

JOINT & MOBILITY ⁽³⁾

naticol[®]
The Fish Collagen Peptides

87 % ⁽³⁾
experienced less joint pain

81 % ⁽³⁾
experienced faster recovery

87 % ⁽³⁾
felt fewer muscle aches and pain

78 % ⁽³⁾
reported an improvement in joint flexibility

84 % ⁽³⁾
noticed less tendon pain

CLAIMS

Studies carried out on Naticol[®] allow the following claims for Naticol[®] or food containing Naticol[®]:

REGULATORY APPROVED CLAIMS - USA

REGULATORY APPROVED CLAIMS - EU

MUSCLE & BONES

- Naticol[®] contributes to maintenance and development of muscle mass, as source of protein (1):
 - increase of total lean mass (+3,5%)
 - increase of body strength (upper +18%, lower +15%)
 - increase of global physical performance : balance + mobility (+ 4,4%)
- Naticol[®] contributes to maintenance of normal bone, as source of protein

- Naticol[®] contributes to maintenance and development of muscle mass, as source of protein
- Naticol[®] contributes to maintenance of normal bone, as source of protein

JOINT

- Naticol[®] improves joint comfort (2):
 - decrease of joint discomfort (-46%)
 - increase of mobility (+48%)
 - decrease of difficulty in physical function (-45%)

Other claims can be used, provided they are justified by studies, tests, etc., available in the literature.

BACKED BY SCIENCE

CLINICAL STUDIES
JOINT & MUSCLES

(1) Naticol[®] 15 g / day
Double-blind, randomized, against placebo clinical study. Carried on 28 subjects for 24 weeks. Tyree S. M. and al. (2021) JOJCS, 12(5) : 0001-0008.

(2) Naticol[®] 10 g / day
Double-blind, randomized, against placebo clinical study. Carried on 30 subjects for 12 weeks. Lacey S, and al. (2019) JOJCS, 10(2) : 0030-0037.

CONSUMER PANEL

(3) Naticol[®] 10 g / day
Consumer panel on 37 volunteers, 10g Naticol[®]/ day for 12 weeks. Report available upon request.

**A project ? An idea ?
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Since 1839



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