Naticol
Fish collagen peptides

Musculoskeletal condition*

Aging is frequenty associated with major factors responsible for functional limitation and motor dependency. Due to the demands upon the collagen-containing structures (movement and bearing weight), it is vital to optimize the conditions that support the maintenance of joint mobility and musculoskeletal condition.

WELL-BEING

Naticol® has demonstrated its role as natural ingredient for musculoskeletal condition.

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Food Safety System Certification 22000

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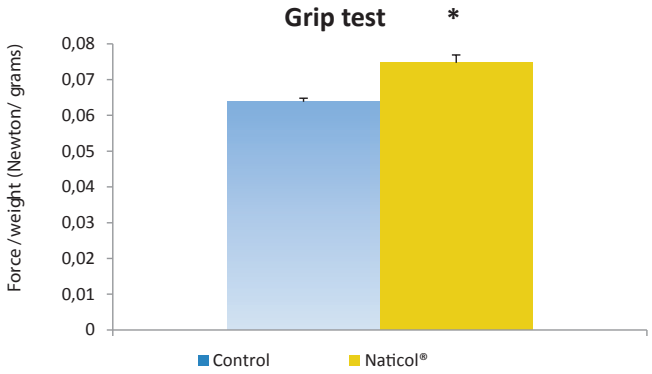
IN VIVO STUDY – PROTOCOL AND RESULTS

This in vivo study was conducted by INSERM-I2MC (National medical Research institute, France) and lasted 14 weeks. It was carried on ovariectomized mice C57Bl/6 female mice (12 weeks old) having developed an osteoporosis. The objective was to evaluate the effects of an oral intake of Naticol® fish collagen peptides (daily diet containing 2,5% of Naticol®) on bone mineral density, muscular force and tissues. The mice received a normal chow diet.

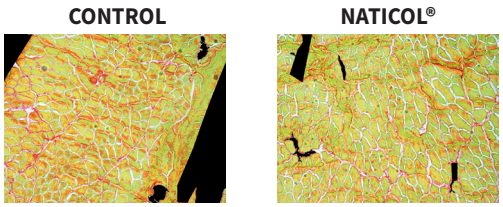
› Muscular resistance and strength

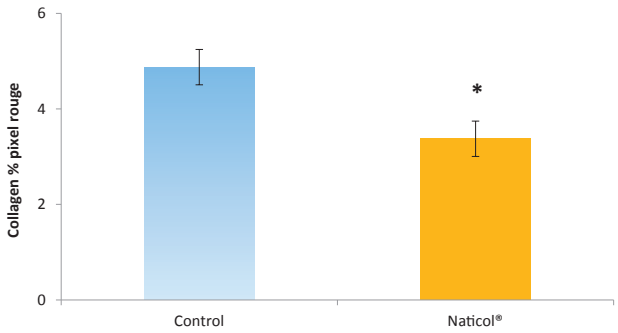
In order to assess muscular resistance and strength, we used the grip test. The mice groups treated with Naticol® showed a significant increase of their muscular force vs. control group (p<0,05).



› Muscular fiber histological structure

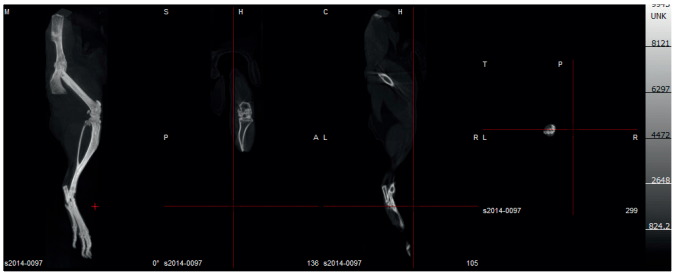
Muscular fibers were analized by microscopy using hemalun/eosin for muscle fiber structure and Masson trichrome for collagen. The mice group treated with Naticol® showed a significant increase of their muscular mass and consequently, a decrease of the deleterious matrix collagen (p<0,05).
This gain of muscular tissue may translate the higher muscular force we previously observed. In physiologyy, a muscle which gains muscular force builds myocytes.

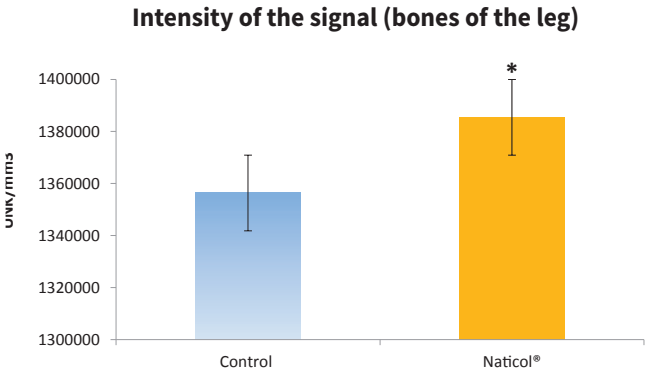




› Bone mineral density

Bone density was assessed by CT tomography.
The results showed that bone density moved towards an increase in the mice group treated with Naticol® vs. control group.





› Conclusion

The results of oral ingestion of Naticol® on a daily basis, showed that regular intake of Naticol® Fish collagen peptides may improve the musculoskeletal condition.
In this study, Naticol® has demonstrated its role as a natural ingredient for musculoskeletal condition.

**These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.*

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