

Musculoskeletal condition *

Aging is frequently 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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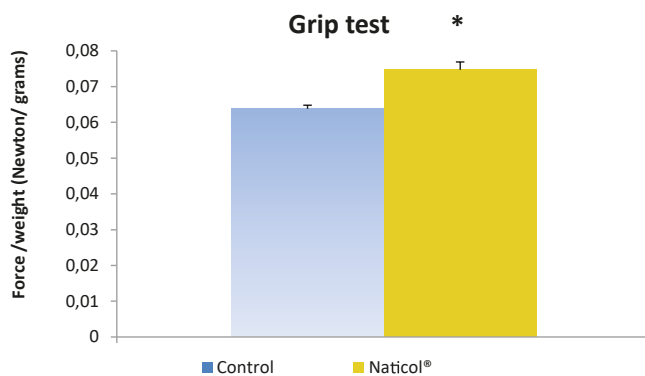


IN VIVO STUDY – PROTOCOL AND RESULTS

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

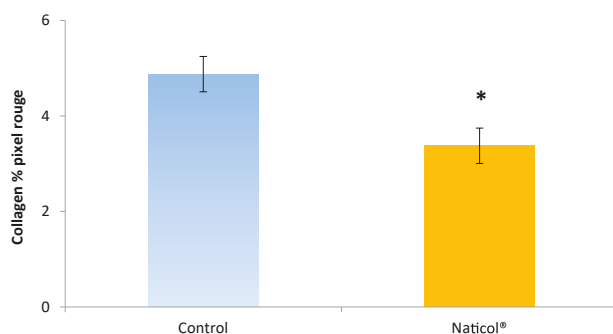
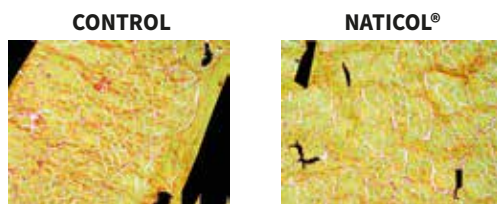
In order to assess muscular resistance and strength, we used the grip test. The mice groups treated with Naticol[®] showed a significant increase of their muscular force vs. control group ($p < 0,05$).



› Muscular fiber histological structure

Muscular fibers were analyzed 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 ($p < 0,05$).

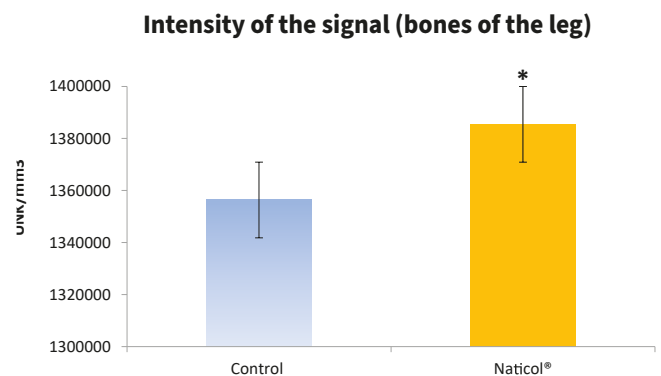
This gain of muscular tissue may translate the higher muscular force we previously observed. In physiology, a muscle which gains muscular force builds myocytes.



› 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.

The claims related to beneficial effects of the ingredient Naticol[®] on health and nutrition, as mentioned in this document, are substantiated by results of scientific studies, but are not all covered by the requirements of the European regulation 1924/2006/EC. It is the responsibility of the marketer of foodstuffs and food supplements containing Naticol[®] to comply with this regulation.