

Bibliography

This document lists supportive literature for the efficacy of collagen peptides in human health and nutrition.

Updated – July 2020

Content

- Bioavailability
- Skin beauty
- Joint health
- Bone health
- Sports nutrition
- Weight management

Articles are marked as follows:

* Study performed with Peptan®

** Study performed with Peptan®-containing end product

*** Study performed with Hydro-P® (Sonac)

^ Article with Rousselot contribution

Bioavailability

1. **Hydroxyproline-containing dipeptides and tripeptides quantified at high concentration in human blood after oral administration of gelatine hydrolysate.**
Ichikawa S, Morifuji M, Ohara H, Matsumoto H, Takeuchi Y, Sato K (2010)
International Journal of Food Sciences and Nutrition 61 (1): 52-60
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Journal of Agricultural and Food Chemistry 53 (16): 6531-6536
3. **Distribution of prolylhydroxyproline and its metabolites after oral administration in rats.**
Kawaguchi T, Nanbu PN, Kurokawa M (2012)
Biological & Pharmaceutical Bulletin 35 (3): 422-427
4. **Ingestion of a protein hydrolysate is accompanied by an accelerated in vivo digestion and absorption rate when compared with its intact protein.**
Koopman R, Crombach N, Gijsen AP, Walrand S, Fauquant J, Kies AK, Lemosquet S, Saris WHM, Boirie Y, van Loon LJC (2009)
American Journal of Clinical Nutrition 90 (1): 106-115
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Shigemura Y, Kubomura D, Sato Y, Sato K (2014)
Food Chemistry 159: 328-332
6. **Quantification of hydroxyprolyl-glycine (Hyp-Gly) in human blood after ingestion of collagen hydrolysate.**
Sugihara F, Inoue N, Kuwamori M, Taniguchi M (2012)
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Journal of Agricultural and Food Chemistry 58 (2): 835-841

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* Study performed with Peptan

Skin beauty

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Asserin J, Lati E, Shioya T, Prawitt J (2015)
Journal of Cosmetic Dermatology 14 (4): 291-301
2. ****Effects of collagen-derived bioactive peptides and natural antioxidant compounds on proliferation and matrix protein synthesis by cultured normal human dermal fibroblasts.**
Edgar S, Hopley B, Genovese L, Sibilla S, Laight D, Shute J (2018)
Scientific reports 8(1): 10474
3. **Influence of age on the wrinkling capacities of skin.**
Batisse F, Bazin R, Baldeweck T, Querleux B, Lévéque JL (2002)
Skin Research and Technology 8 (3): 148-154
4. ****Daily consumption of the collagen supplement Pure Gold Collagen® reduces visible signs of aging.**
Borumand M, Sibilla S (2014)
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5. **An oral supplementation based on hydrolyzed collagen and vitamins improves skin elasticity and dermis echogenicity: a clinical placebo-controlled study.**
Campos PM, Melo MO, Calixto LS, Fossa MM (2015)
Clinical Pharmacology & Biopharmaceutics 4 (3): 142
6. **Dietary nutrient intakes and skin-aging appearance among middle-aged American women.**
Cosgrove MC, Franco OH, Granger SP, Murray PG, Mayes AE (2007)
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* Study performed with Peptan

** Study performed with Peptan-containing end product

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Matsumoto H, Ohara H, Ito K, Nakamura Y, Takahashi S (2006) ITE Letters on Batteries, New Technologies and Medicine 7 (4): 386-390

9. Collagen hydrolysate intake improves the loss of epidermal barrier function and skin elasticity induced by UVB irradiation in hairless mice.

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Joint health

- A randomized controlled trial on the efficacy and safety of a food ingredient, collagen hydrolysate, for improving joint comfort.**

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- Effect of collagen hydrolysate in articular pain: A 6-month randomized, double-blind, placebo controlled study.**

Bruyère O, Zegels B, Leonori L, Rabenda V, Janssen A, Bourges C, Reginster JY (2012)
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- *Daily oral consumption of hydrolyzed type 1 collagen is chondroprotective and anti-inflammatory in murine posttraumatic osteoarthritis***

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* Study performed with Peptan

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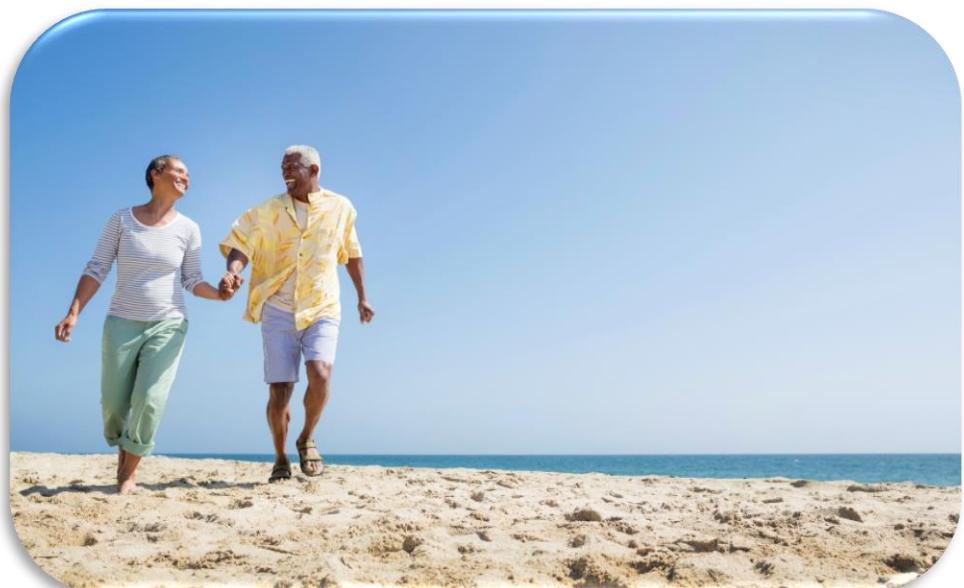
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*** Study performed with HydroP (Sonac)

Bone health

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Critical Reviews in Food Science and Nutrition 57 (9): 1922-1937

4. *Hydrolyzed collagen contributes to osteoblast differentiation in vitro and subsequent bone health in vivo.

Daneault A, Coxam V, Fabien-Soulé V, Wittrant Y (2014)
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Sports nutrition

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Weight management

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