



UC-II®

For Joint Health



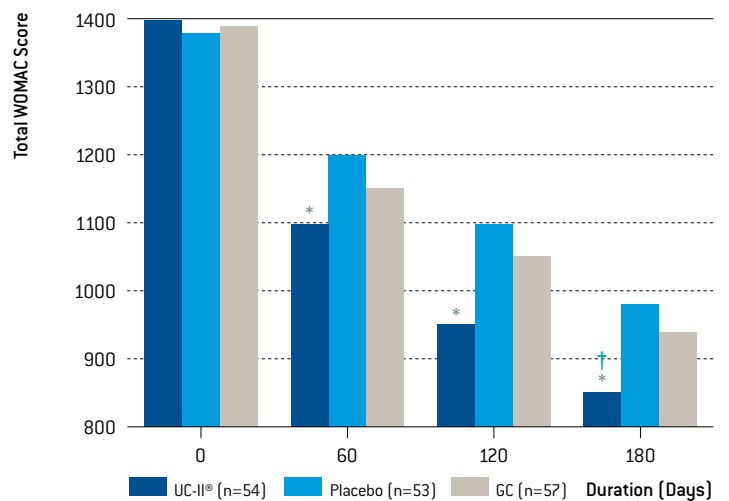
40 mg Once a Day

UC-II® is the brand name for cartilage containing undenatured (native) Type II - collagen in powder form for use as a dietary supplement.

* WOMAC (Western Ontario and McMaster Universities Osteoarthritis Index)

Statistically significantly more effective than Glucosamine plus Chondroitin as Measured by WOMAC*

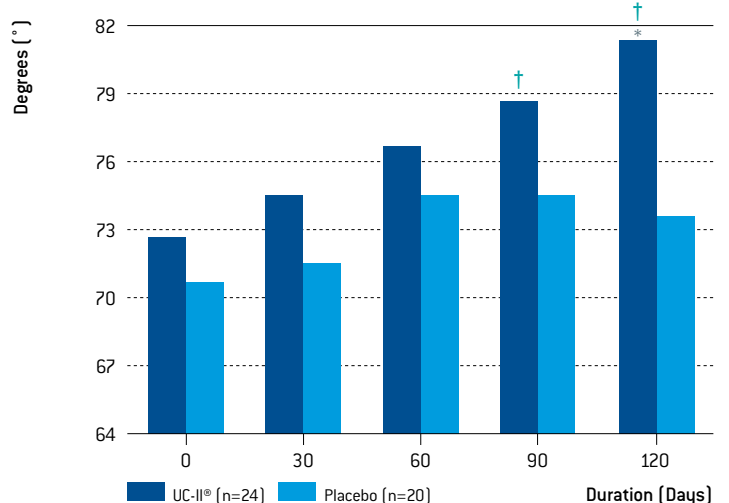
Total WOMAC Score in Subjects with Osteoarthritis



Lugo JP, Saiyed ZM, Lane NE. Efficacy and tolerability of an undenatured type II collagen supplement in modulating knee osteoarthritis symptoms: A multicenter randomized, double-blind, placebo-controlled study. *Nutr J.* 2016;15:14.

Clinically Studied in Healthy, Active Adults

Average Knee Extension in Healthy Subjects



Lugo JP, et al. Undenatured type II collagen (UC-II®) for joint support: a randomized, double-blind, placebo-controlled study in healthy volunteers. *J Int Soc Sports Nutr.* 2013;10:48.

1. Statistically Significantly Better than Glucosamine Plus Chondroitin as measured by WOMAC

Lugo JP, et al. Efficacy and tolerability of an undenatured type II collagen supplement in modulating knee osteoarthritis symptoms: a multicenter randomized, double-blind, placebo-controlled study. *Nutr J.* 2016;15:14.

2. Clinically Studied in Healthy, Active Adults

Lugo JP, et al. Undenatured type II collagen (UC-II®) for joint support: a randomized, double-blind, placebo-controlled study in healthy volunteers. *J Int Soc Sports Nutr.* 2013;10:48.

3. Improves Joint Comfort, Mobility and Flexibility

Lugo JP, et al. Efficacy and tolerability of an undenatured type II collagen supplement in modulating knee osteoarthritis symptoms: a multicenter randomized, double-blind, placebo-controlled study. *Nutr J.* 2016;15:14.

Lugo JP, et al. Undenatured type II collagen (UC-II®) for joint support: a randomized, double-blind, placebo-controlled study in healthy volunteers. *J Int Soc Sports Nutr.* 2013;10:48.

Crowley DC, et al. Safety and efficacy of undenatured type II collagen in the treatment of osteoarthritis of the knee: a clinical trial. *Int J Med Sci.* 2009;6:312-321.

4. Small, Once a Day Dosage

Lugo JP, et al. Undenatured type II collagen (UC-II®) for joint support: a randomized, double-blind, placebo-controlled study in healthy volunteers. *J Int Soc Sports Nutr.* 2013;10:48.

5. Unique Mechanism of Action

Lugo JP, et al. Efficacy and tolerability of an undenatured type II collagen supplement in modulating knee osteoarthritis symptoms: a multicenter randomized, double-blind, placebo-controlled study. *Nutr J.* 2016;15:14.

Lugo JP, et al. Undenatured type II collagen (UC-II®) for joint support: a randomized, double-blind, placebo-controlled study in healthy volunteers. *J Int Soc Sports Nutr.* 2013;10:48.

Bagi C.M. Osteoarthritis - Opportunities for nonsurgical therapies. Presented at *8th International Conference of Orthopedic Surgeons and Rheumatology*, March 22-23, 2017 Rome, Italy.

6. Sourced & Manufactured in the USA

UC-II® production site (Arkansas) holds a NSF facility GMP certificate.

7. Patents

US Patents 9,066,926, 7,846,487 and 7,083,820; EP Patent EP 1 435 906; Canadian Patent CA 2459981C; and Japanese Patent JP 4800574 B2 and other granted patents and pending patent applications.

8. Safety Profile

Marone PA, et al. Safety and toxicological evaluation of undenatured type II collagen. *Toxicol Mech Meth.* 2010;20:175-189.

9. Self-affirmed GRAS since 2009 FDA New Dietary Ingredient (NDI) notified and published.

Completed Safety Tests			
Human & Animal Studies	✓	90 Day Toxicity Study	✓
Acute Oral Toxicity	✓	Mouse Lymphoma Assay	✓
Primary Eye Irritation	✓	Ames Bacterial Assay	✓
Primary Skin Irritation	✓	Acute Dermal Toxicity	✓

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