

Injuv[®]



Moisture Is the Foundation of Healthy Aging

Injuv[®] is a clinically studied, multi-constituent bioactive moisture complex designed to hydrate skin, joints, and eyes from the inside out.*





What It Is

Developed through long-standing research in Japan, Injuv® is a clinically studied bioactive moisture complex comprised of multiple constituents, including hyaluronic acid oligosaccharides, collagen and elastin peptides, amino acids, vitamins, and minerals. It is designed to deliver internal hydration across multiple tissues—not as a single active, but as a synergistic system.*

Why It's Special

Injuv® Supports:



Skin hydration, elasticity, and softness*



Joint and back comfort, mobility, and range of motion*



Eye moisture, comfort, and quality of life*

All Unified by One Principle: Moisture.

What Makes It Different

- **Naturally Sourced, Gently Processed**
Derived from rooster comb using a low-temperature enzymatic process that preserves bioactivity
- **Designed for Systemic Absorption**
Ultra-low-molecular-weight constituents enable efficient intestinal uptake and systemic delivery
- **Clinically Studied**
Efficacy supported by multiple human clinical studies across diverse healthy aging applications
- **Protected by Global Patents**
Backed by a robust intellectual property portfolio covering skin, joint, and eye health
- **Proven by 20+ Years of Market Success**
Successfully commercialized for over two decades, establishing long-term trust through consistent quality, real-world performance, and ongoing scientific advancement

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



A Moisture-Driven System for Healthy Aging

Because adequate moisture is fundamental to the structure, function, and appearance of many tissues, hydration plays a central role in healthy aging across life stages.

Injuv® delivers hydration-driven benefits to the skin, joints, and eyes through a synergistic complex of naturally derived bioactive components. Few healthy aging ingredients provide such a comprehensive range of benefits in a single, integrated system.

Designed to meet the needs of today's evolving healthy aging consumer, Injuv® appeals both to younger adults focused on maintaining performance and appearance, as well as older adults seeking to support comfort and physical function over time.

An Ingredient from Nature

Injuv® is derived from rooster comb and produced using a gentle, low-temperature enzymatic process. The resulting complex is made without harsh chemical modification, helping preserve the natural functionality of its components.

Injuv® is composed of a combination of:

- Ultra-low-molecular weight hyaluronic acid oligosaccharides
- ~ 7,500 peptides
- 21 types of collagen peptides, from type I to type XXVIII
- Multiple types of elastin peptides
- 20 amino acids, including all essential ones
- Trace amounts of 17 vitamins and minerals

Together, these constituents form a multi-component moisture system designed for efficient absorption and systemic hydration.*

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Designed for Systemic Absorption

A compound's molecular weight is key to its ability to be absorbed. Lower-molecular-weight compounds are better able to cross the luminal membrane of the small intestine and enter systemic circulation.

Through a patented, enzymatic process, ordinary rooster comb is transformed into Injuv®—an ultra-low-molecular-weight bioavailable complex.¹ Because of its small size, Injuv® is easily absorbed through the intestinal tract, as demonstrated in human and animal research.

Molecular Size of Native Molecules vs. Bioavailable Forms in Injuv®			
Native Molecule	Molecular Weight in Nature (Daltons)	Bioavailable Form in Injuv®	Molecular Weight in Injuv® (Daltons)
Hyaluronic acid	6,000,000–8,000,000	Low-molecular-weight hyaluronic acid oligosaccharides	380–5,320
Collagen and elastin proteins	300,000–400,000	Amino acids and peptides	Amino acids: ~110 Peptides: 1,000–5,000

Daily Dosage

Injuv® has been studied in two forms: as Soft Gel Technologies' ready-made soft gels, composed of Injuv® powder suspended in oil (Injuv® Complex), and as a powder in capsule/tablet form.

The recommended Injuv® dosage is **2 softgels (providing 140 mg Injuv® Complex) per day**—consistent with a human clinical trial finding that this protocol improved skin moisture in just 30 days.* The clinically studied dosage for joint comfort is 420 mg per day, while knee, back, and eye comfort benefits have been observed at 1,200 mg daily.*

Patents

Injuv® is supported by a robust, worldwide intellectual property portfolio, with patents granted in multiple regions. Globally, this portfolio includes patents covering a wide range of uses, including wound healing, UV protection, nerve health, antioxidant activity, blood pressure and cholesterol management, blood glucose control, joint and back comfort, joint range of motion, fibroblast and collagen proliferation, and eye condition improvement. In the United States, multiple issued patents protect the enzymatic production process, the resulting composition, and select patented uses.**

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** U.S. Patent Nos. 10,973,858 B2; 11,179,414 B2; 11,564,950 B2; 11,759,483 B2; and 11,911,417 B2.



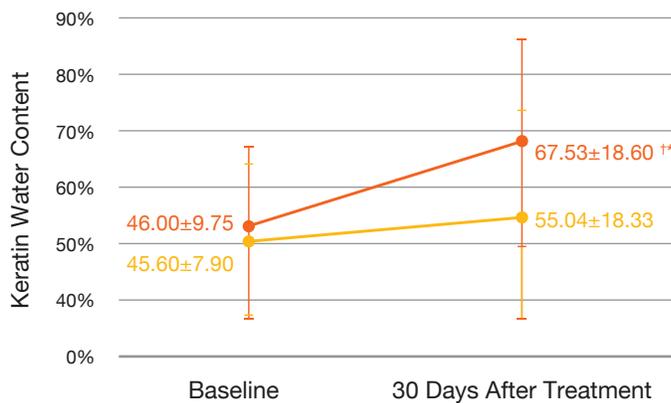
Injuv[®] Clinical Research

Injuv[®] Boosts Skin Moisture

A placebo-controlled clinical study in 107 adults (ages 30–50) evaluated the effects of Injuv[®] on skin moisturization over 30 days. Participants were randomized to take two 70 mg softgels of Injuv[®] Complex or a placebo twice daily. Skin moisture was measured at baseline and after 30 days using an SHP88 probe.¹

- **Skin moisture:** Moisture content of the skin increased significantly compared to both baseline and placebo*
- **Time to effect:** Improvements were observed after just 30 days of supplementation
- **Safety:** No adverse events were reported

Changes in Skin Moisture Content and pH



● Injuv[®] Oral Intake (n=52)

● Control (n=55)

† Comparison within the same group ($p < 0.01$)

* Comparison btw Injuv[®] vs. control ($p < 0.01$)

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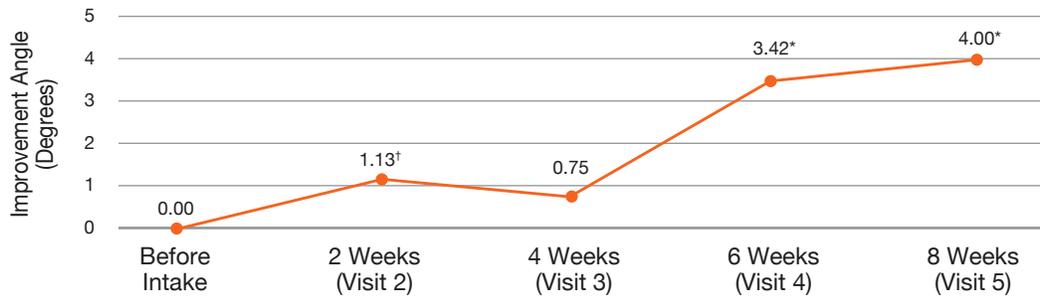
Injuv® Supports Skin Health and Joint Comfort

An open-label human study in 96 women aged 22 to 65 found that participants taking 420 mg of Injuv® powder experienced noticeable improvements in skin moisture, elasticity, and softness, along with improved joint comfort, within 45 days.*

Injuv® Improves Knee and Back Comfort

In another open-label human study, eight weeks of daily Injuv® powder supplementation (1,200 mg daily) was associated with noticeable improvements in knee and back comfort, daily movement, and range of motion.²

Knee Voluntary Range of Motion (Left and Right Average) vs. Baseline



Average±SE

Paired-t-test:

† p < 0.1

* p < 0.05

Injuv® Supports Eye Hydration

An open-label study found that taking 1,200 mg of Injuv® powder daily for eight weeks supported noticeable improvements in eye comfort and hydration, as well as better quality of life, with no reported side effects.*³

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Safety

In an acute toxicity test in rats, a single high dose of Injuv[®] caused no observable abnormalities or mortalities. The acute oral LD50 was greater than 5,050 mg/kg—equivalent to 343,400 mg for an average human.

Injuv[®] in Vitro Research (Mechanism of Action)

Cognitive Health

Injuv[®] promoted neurite outgrowth (nerve elongation) in PC12 cells, suggesting potential support for cognitive health applications.*⁴

Skin Health

Injuv[®] and its vitamin C-enhanced form significantly increased fibroblast proliferation and stimulated type I collagen production, supporting its potential for skin health applications.*

Wound Healing

Injuv[®] helped recruit fibroblasts to the site of injury, indicating it helps promote wound healing at the cellular level.*

Anti-UV Activity

Lactic acid bacteria cultured with Injuv[®] continued to grow even after UV irradiation, indicating Injuv[®] can help mitigate UV-induced damage in biological systems.*

Antioxidant Activity

Injuv[®] demonstrated selective and sustained antioxidant activity in laboratory testing, including scavenging free radicals and protecting red blood cells from oxidative stress, suggesting benefits to the cardiovascular system*.

Turnkey Softgels

Soft Gel Technologies is pleased to offer Injuv[®] as an off-the-shelf formulation in a soft gelatin capsule, providing 70 mg of Injuv[®] standardized to 9 percent hyaluronic acid.

Injuv[®] is the multi-constituent complex of choice for manufacturers seeking a clinically supported, highly absorbable solution for skin, joint, and eye health.

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Why Soft Gel Technologies?

For more than 30 years, Soft Gel Technologies has focused exclusively on softgel manufacturing, setting the gold standard in this delivery form.

Unmatched Expertise: With 32 U.S. patents, we've pioneered advancements in bioavailability, dissolution, and nutrient stability, making our softgels truly stand out.

World-Class Manufacturing Facility: Our cGMP-certified facility in Los Angeles features precision blending and encapsulation equipment, enabling us to consistently produce softgels of unparalleled quality.

In-House Analytical Laboratory: Staffed by highly trained experts, our lab ensures the integrity of every softgel through rigorous testing at all stages—from raw materials to finished products.

Collaborative Support: More than a contract manufacturer, we assist with formulation development, sourcing premium ingredients, and providing real-time stability data to help your brand thrive.

Commitment to Transparency: We encourage regular customer audits to review batch records, certificates of analysis, and quality control test results, fostering trust in every partnership.

References

1. Wakayama S. Clinical study on Injuv® demonstrates improvement of skin moisture content. Presented at: Nutracon and Supply Expo Conference; March 2009; Anaheim, CA.
2. Ogura M, Takabe W, Yagi M, Wakayama S, Yonei Y. Study for investigation of symptomatic improvement and safety of the ingestion of rooster comb degradation product containing low-molecular hyaluronic acid (INJUV) in individuals with knee and lower back pain; open-label trial with no control group. *Glycative Stress Res.* 2018;5(1):55-67.
3. Ayaki M, Wakayama S, Yonei Y. Effects of rooster comb degradation product containing low-molecular hyaluronic acid (INJUV) in individuals with eye dryness; open-label trial with no control group. *Glycative Stress Res.* 2022;9(2):97-105. doi:10.24659/gsr.9.2_97
4. Koga T, Tai A. Neurite Outgrowth-Promoting Compounds from Cockscomb Hydrolysate. *Nutrients.* 2022;14(7):1422. doi:10.3390/nu14071422

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