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Hydrolysed Collagen Powder

Silver Fern Farms Hydrolysed Collagen Powder is a world first product, a functional peptide sourced entirely from New Zealand farm-traceable, grass fed, free-range sheep. Collagen is the most abundant protein in the human body and plays a crucial role in maintaining the structural integrity of various tissues, including skin, bones and connective tissues. Due to its health benefits and bioavailability, hydrolysed collagen is widely used as a functional ingredient in nutraceuticals, supplements, food and beverages.

Silver Fern Farms hydrolysed ovine collagen powder is a natural high-purity source of collagen peptides. The enzymatic hydrolysis process used produces collagen peptides that are both highly soluble and easily absorbed by the body.



Technical Profile

Product Name	Hydrolysed collagen	Chemical Name	Hydrolysed collagen
Source	Ovine	CAS	92113-31-0

Our Supply Advantage

- **Traceability:** Being produced from New Zealand farm-traceable, grass-fed, free-range sheep, Silver Fern Farms Hydrolysed Collagen Powder is ideal for consumers concerned about animal health and welfare, and product provenance.
- **Cultural acceptability:** Ovine collagen peptides will have wide acceptability across religious and cultural groups who may avoid products from bovine or porcine sources.
- **Clean-label:** With no allergens such as dairy, soy, gluten, or fish/shellfish, hydrolysed ovine collagen is ideal for manufacturers looking to produce a clean-label product, and will have high acceptability to health-conscious consumers.
- **Quality:** Our collagen is sourced entirely from sheep that are deemed fit for human consumption on veterinary inspection. In addition, being an island nation New Zealand has a closed herd that is confirmed as free from all Transmissible Spongiform Encephalopathies (including Scrapie and BSE) by the Ministry of Primary Industries (MPI).
- **High manufacturing standards:** This product is manufactured and packed in New Zealand in a modern, approved facility, operating with a Risk Management Programme (RMP) and overseen by MPI.

Functional Benefits

- **Compatibility:** Ovine collagen is closer in sequence to human collagen than marine collagen, and is naturally rich in the key amino acids glycine, proline and hydroxyproline.
- **High bioavailability:** Produced by a gentle enzyme hydrolysis process, the low molecular weight peptides ensure high digestibility, and are easily absorbed into the body.
- **Behaviour in formulation:** The high degree of similarity in collagen protein sequence between bovine and ovine collagen ensure they behave similarly in formulation, enabling a seamless switch over.

Health Benefits

In meta-analyses and other reviews of published evidence, oral supplementation with hydrolysed collagen has been shown to have the following health benefits*:

- **Skin Health:** Collagen is the main protein component of skin, but as we age levels can decrease leading to the familiar visible signs of aging. Supplementing with collagen can help improve skin elasticity and hydration, and decrease the appearance of wrinkles.^{1,2,3}
- **Joint Health:** Highly bio-available collagen peptides can be absorbed into the cartilage that acts as the cushion between bones in joints, protecting and boosting its functioning. Supplementing with collagen peptides has been shown across multiple studies to reduce pain on movement, and improve joint mobility.^{4, 5}
- **Bone Health:** Studies have shown the potential for collagen supplementation to enhance bone density and strength.⁶
- **Muscle Recovery:** Supplementation with hydrolysed collagen has been shown to have positive benefits on muscle mass, strength, and muscle recovery from exercise across a diverse range of population types e.g. pre-menopausal women, and post-menopausal women, young adults, athletes, and the elderly.^{6, 7}
- **Gut Health:** Collagen peptides may improve digestion and support a healthy gut microbiome.

Applications

- **Nutraceuticals/Supplements:** Capsules, tablets, powders
- **Functional Foods:** Protein bars, snacks, dairy products
- **Beverages:** Protein shakes, smoothies, sports drinks

Usage Recommendations

- **Concentration:** Typically 1–10% in formulations
- **Method of Use:** Can be mixed directly into food products or beverages
- **Recommended Dosage:** 2.5–10 grams per day, depending on the application

Physical and Chemical Properties

Characteristic	Specification	Microbiological	Specification
Appearance	Off white powder	Aerobic plate count	≤10,000 cfu/g
Odour	None	Staphylococcus Aureus	≤10 cfu/g
Particle size	Passes through 500 µm	Salmonella	ND/25g
Loss on drying	≤10%	E. Coli	ND/g
Residue on ignition	≤10%	Total coliforms	<3 MPN/g
Protein	≥85%	Yeast and Mould	<100 cfu/g
Heavy metal	≤20ppm		
pH	4.0–7.0		
SO ₂	≤30ppm		

Presentation, Storage and Handling

- 10kg bag (pharmaceutical grade liner, 3-ply food-grade paper outer)
- Store in a cool, dry place away from direct sunlight.



Safety and Regulatory Information

- **Safety:** Silver Fern Farms Hydrolysed keratin powder is considered safe for consumption.
 - **Free-from:** This product contains no preservatives, hormones, or known allergens (including dairy, soy, fish/shellfish, and gluten).
 - **Certifications:** New Zealand is certified as being free of all transmissible spongiform encephalopathies (BSE and Scrapie).
 - **Labelling:** Can be labelled as Hydrolysed Keratin or Keratin Peptide.
- * These statements have not been evaluated by the FDA or other regulatory authorities. This product is not intended to treat, cure or prevent any disease.

Footnote

1

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