

Product Name & Description

Product Name: Premium Hydrolyzed Fish Collagen Peptide (Skin Health & Nutricosmetic Grade)

Description: Premium food-grade hydrolyzed fish collagen peptide, meticulously manufactured from high-quality fish skins and scales through advanced enzymatic hydrolysis technology. Characterized by an ultra-low molecular weight profile (typically $\leq 1000 - 2000$ Daltons), this highly bioavailable Type I collagen is optimized for ultimate rapid absorption into target human dermal tissues. Engineered explicitly for nutricosmetics, functional skin health beverages, anti-aging tablets, and solid powder mixes, it balances superior instant solubility with a completely clean, odorless, and neutral taste profile.

Key Specifications & Quality Parameters

Analysis Item	Specification Standard	Test Method Reference
Appearance	White to off-white refined powder	Visual / USP Standard
Odor & Taste	Completely neutral, bland taste, zero fishy odor	Sensory Panel (10% Solution)
Protein Content (Dry basis)	$\geq 90.0\%$	Kjeldahl Method (\$N imes 6.25\$)
Average Molecular Weight	$\leq 1000 - 2000$ Daltons (Highly oligopeptide rich)	Gel Permeation Chromatography
Solubility	100% instantly soluble in cold water; clear solution	Standard Dissolution Test
Clarity of Solution	≤ 5 NTU (Completely transparent)	Turbidimetry (10% Solution)
pH (10% Solution at 25°C)	5.0 – 7.0	Potentiometric
Loss on Drying (Moisture)	$\leq 6.0\%$	105°C for 3 Hours
Residue on Ignition (Ash)	$\leq 1.5\%$	Gravimetric (550°C)
Heavy Metals (as Pb)	≤ 4.0 ppm	Atomic Absorption (AAS)
Arsenic (As)	≤ 0.8 ppm	ICP-MS
Total Aerobic Plate Count	≤ 1000 cfu/g	USP / GB Standard
Molds & Yeasts	≤ 50 cfu/g	USP / GB Standard
Coliforms	Absent / g	Negative
Salmonella Sp.	Absent / 25g	Negative

Functional Skin Health Benefits & Mechanisms

- **Dermal Fibroblast Stimulation:** Delivers essential Type I collagen building blocks (Glycine, Proline, and Hydroxyproline oligopeptides) that trigger endogenous collagen synthesis, enhancing dermal density.
- **Anti-Aging & Wrinkle Reduction:** Clinically recognized to strengthen the extracellular matrix of the skin, increasing skin elasticity and significantly smoothing fine lines and wrinkles.
- **Deep Hydration Matrix:** Promotes the synthesis of hyaluronic acid within epidermal tissues, restoring optimum moisture-binding capacity and preventing transepidermal water loss (TEWL).
- **UV Photo-Protection Support:** Rich in antioxidant bioactive peptides that counteract oxidative stress and reactive oxygen species (ROS) induced by environmental UV radiation.

Formulation & Application Highlights

- **Instant Dissolution Beverages:** Dissolves seamlessly without clumping or precipitation. Due to its outstanding low NTU transparency, it is highly suited for clear beauty shots, functional waters, and collagen juices.
- **Solid Powder Blends & Sachets:** Provides uniform bulk density and excellent dry flowability properties, easing precision filling into single-serve powder stickpacks and sachets.
- **Tablet & Capsule Excipient Synergy:** Compressible properties and low moisture accumulation profiles prevent raw ingredient clumping during blending and high-speed tablet compression cycles.
- **Clean Flavor Architecture:** Eliminates the need for robust artificial masking flavors or sweeteners, supporting the production of genuine "Clean Label" premium formulas.

Regulatory Compliance & Dietary Certifications

Manufactured under world-class processing chains ensuring stringent compliance with international food and supplement frameworks:

- **Quality Management Systems:** Certified in strict alignment with Good Manufacturing Practices (GMP), ISO 9001, ISO 22000, and FSSC 22000.
- **Global Regulatory Alignment:** Fully satisfies purity protocols mandated by the US FDA, European Food Safety Authority (EFSA), and China National Standards (GB).
- **Dietary Certifications:** Formally verified by accredited Halal and Kosher certification councils, allowing seamless multicultural market inclusion.

Packaging, Logistics & Storage Architecture

Packaging: Multi-wall heavy-duty food-grade Kraft paper outer bags integrated with a multi-layered Polyethylene (PE) moisture-barrier inner liner. Net weight: 20 KG or 25 KG per bag.

Logistical Loading Payload: Approx. 8 – 10 Metric Tons per 20ft FCL container without pallets.

Storage Guidelines: Store in the unopened original container in a clean, cool (< 25°C), and dry warehouse space (< 60% relative humidity). Keep heavily protected from direct sunlight, ambient moisture, and highly volatile aromatic compounds.

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Disclaimer: The details presented inside this Technical Data Sheet are correct to the best of our manufacturing capabilities. Customers are strongly encouraged to run small-scale trials to confirm formulation rheology under specific line stress.