



THE NEXT
Generation
**OF FRESHWATER COLLAGEN
PEPTIDES & GELATIN**
**PURE, SUSTAINABLE,
TRACEABLE**

Contact us

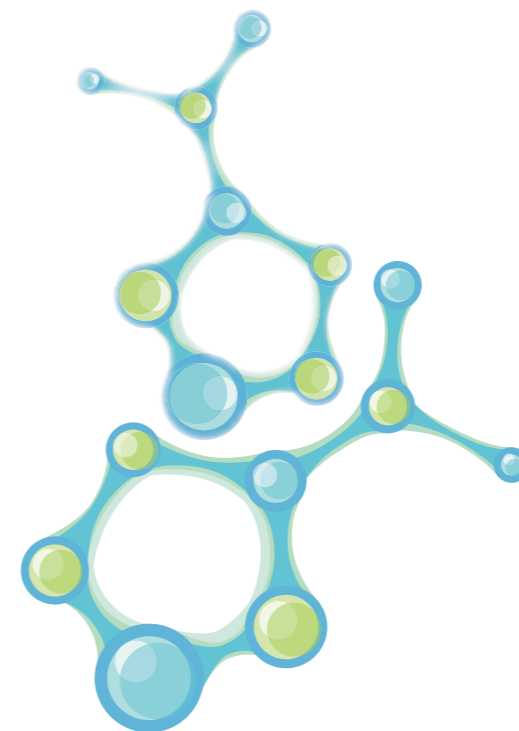


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Our Locations

Headquarter
National Road 30
Ward 11, Cao Lanh City,
Dong Thap Province, Viet Nam
Phone: +84 2773 891 166
E-mail: info@vinhhoan.com

Ho Chi Minh City Branch
8th - 10th Floor, TKT Building
569-571-573 Tran Hung Dao Street
Cau Kho Ward, District 1, HCMC, Vietnam
Phone: +84 28 3836 4849
E-mail: wellness@vinhhoan.com



OUR Story

Aquaculture is already playing a vital role in the global economy and holds vast potential as a source of sustainable nutrition and wellness products. Developing that potential has always been Vinh Hoan's focus. As an international leader in sustainable aquaculture, Vinh Hoan leads by example with our products and education with our research division.

Our strategic development is based on the circular economy model, enabling optimization of the value chain, waste minimization, and adding value for by-products. Vinh Wellness, a division of Vinh Hoan, has successfully produced high-value collagen peptides and gelatin products from pangasius skin which is one significant breakthrough.

OUR Mission

To affirm our market-leading position and contribute to sustainable aquaculture globally by continuous innovation, environmental protection, and efficiency improvement business aspects.

OUR Vision

To be a global aquaculture leader providing safe, sum and healthy food solutions in a sustainable and environmentally friendly manner.



Single Source



Freshwater Fish Sourced **THE NEXT GENERATION OF COLLAGEN PEPTIDES AND GELATIN**

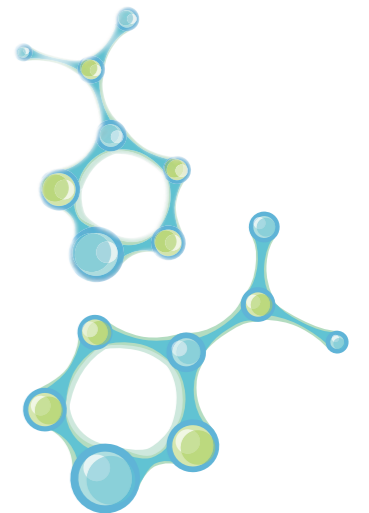
Collagen peptides and gelatin are extracted from various sources such as porcine, bovine, chickens, and fish. In recent years, fish has emerged as a preferred source, being low risk of disease transmission, religiously appropriate, and culturally well-accepted. In addition, collagen peptides and gelatin from fish in sustainable practices reduce waste in food processing and are Earth-friendly.

Vinh Wellness collagen peptides and gelatin are sourced from our own sustainably-raised, tropical, freshwater fish (pangasius hypophthalmus) — a highly stable, fully traceable, single source. As a result, our products are consistent with exceptional quality and ideally suited to the most demanding applications.

Single-sourced production offers complete transparency that addresses consumers' growing desire for safety, purity, environmental responsibility, and traceability. Single source also means complete quality control of the raw ingredients as well as the final products. All Vinh Wellness collagen peptides and gelatin are produced this way. In the following pages, we will explain the other unique advantages our single-sourced products offer to your consumers.

Unlike collagen and gelatin from ocean fish, Vinh Wellness Collagen peptides and gelatin are low in sodium. It is also free of fat, carbs, sugar, and cholesterol. In addition, Vinh Wellness collagen peptides and gelatin are highly soluble and 100% natural, containing no artificial colors, flavors, additives, or preservatives.

All the above help identify our collagen and gelatin as the next generation of collagen peptides and gelatin.



FOUR UNIQUE ADVANTAGES OF TROPICAL FRESHWATER

Collagen Peptides And Gelatin



While marine collagen from saltwater species offers clear advantages over other animal sources, collagen derived from tropical freshwater fish provides even more significant benefits. Here are the top four advantages of tropical freshwater fish collagen.

1. Compatibility: more of the right building blocks are delivered to cells

It is a fact that marine collagen has superior absorption and bioavailability compared to bovine and porcine collagen. But, how many of the fish collagen peptides that reach cells are actually useful? That, of course, depends on what amino acids are present in the collagen. And the source of the collagen. Our tropical freshwater collagen offers a unique advantage in this aspect over all other marine sources. At the molecular level, the collagen structure in an animal's skin is heavily influenced by the temperature in which it lives. An animal that lives at room temperature will develop collagen similar to that of other species living at the same temperature, including humans. The more similar marine collagen is to human collagen, the better.

While ocean fish may seem like a good source of collagen, their skin is adapted to cold saltwater, resulting in collagen that is quite different from that found in terrestrial species. By contrast, our farm-raised Pangasius (*Pangasius Hypophthalmus*) spend their entire lives in fresh, room-temperature water. The result is collagen that more closely resembles the amino acid profile of human skin compared to other marine sources. This means that more amino acids delivered to the cells are viable and can be metabolized through various anabolic processes.

2. Purity: exceptional purity with no heavy metals

Collagen peptides and gelatin sourced from tropical freshwater fish offer unmatched purity. Studies have shown that marine collagen from ocean dwelling-fish can be contaminated with heavy metals and other contaminants. Our freshwater, farm-raised fish minimize this risk. And, because Vinh Wellness collagen is single-sourced, you get a level of product uniformity batch-to-batch and year-to-year-that would otherwise be impossible to match.

3. Scent: freshwater imparts less odor and taste

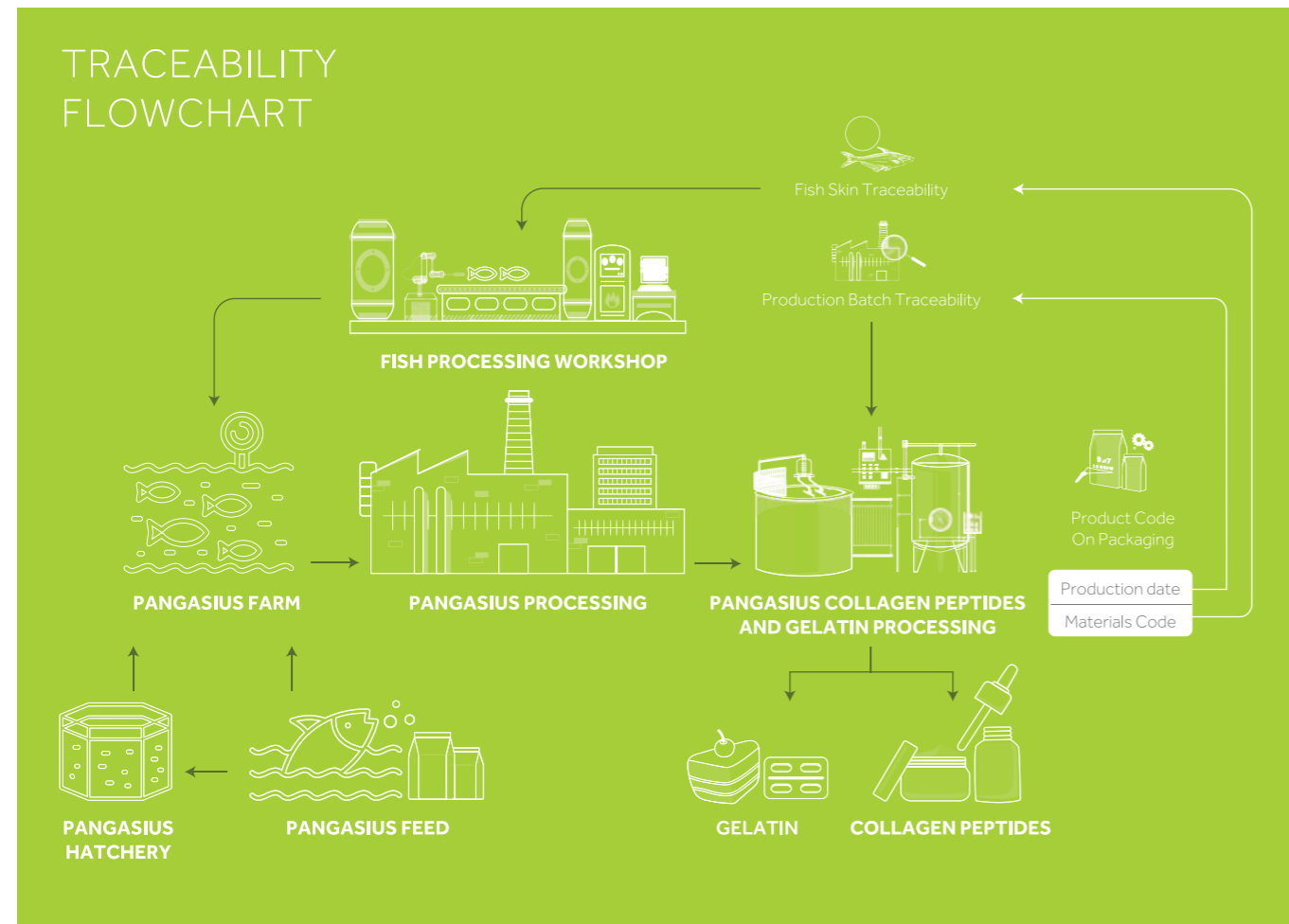
Collagen peptides and gelatin sourced from sea fish contain higher sodium levels, which can influence taste. Since Vinh Wellness collagen peptide and gelatin products are sourced from freshwater fish, they are naturally low in sodium. Also, marine collagen made from ocean-dwelling fish is often produced by blending the skins of a wide variety of species. In addition to the lack of traceability and uniformity, this practice is more likely to add unwanted odors and flavors to the collagen. This is not an issue with our highly controlled, single-sourced, freshwater production.

4. Efficacy: unique beneficial amino acid chains

Vinh Wellness collagen peptides and gelatin contain a unique amino acid profile. Our single-sourced Pangasius fish is an excellent source of branched-chain amino acids (BCAA), isoleucine, leucine, and valine. Compared to other marine sources, Vinh Wellness collagen also contains higher concentrations of proline, hydroxyproline, lysine, and phenylalanine. In addition to providing specific health benefits, our single-sourced processing means Vinh Wellness can deliver this unique amino acid profile consistently, batch-to-batch and year-to-year.

HOW *Single-sourced* PRODUCTION BENEFITS YOUR BUSINESS, YOUR CUSTOMERS, AND OUR PLANET

SINGLE-SOURCED PROCESSING



A NEW STANDARD FOR COLLAGEN PEPTIDES AND GELATIN

When producing collagen peptides and gelatin, the raw materials can affect the final products' purity, efficacy, and safety. As such, most collagen and gelatin producers try to control the quality standard for these raw materials. However, it is a challenging task to do that because the raw materials are

sourced from third-party slaughterhouses or fish processing plants. Additionally, collagen and gelatin derived from a single source in this extraordinary manner have the dual advantages of uniformity and traceability. Buyers know the resulting product is safe, pure, ethical, and environmentally sustainable.



UNIFORMITY

Thanks for applying the single-sourced production, we exercise total control of production as well as over our raw materials. This unique process results in product uniformity and consistency from batch to batch and year to year.



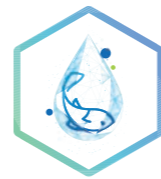
TRACEABILITY

We breed and raise our own fish to have complete control over production. Our traceability code on the packaging includes production date and materials code, allowing us to quickly identify and address any issues. We can trace back to each processing workshop and fish farm, ensuring top-quality products for our customers.



SUSTAINABILITY

Vinh Wellness uses raw materials for their collagen and gelatin that are certified by the Aquaculture Stewardship Council (ASC). The farm that supplies the materials meets the highest industry standards for things like water quality, responsible sourcing of feed, animal welfare, fair treatment of workers, and community relations.



24-HOUR PROCESS

The proximity of our ponds and fish factories to our processing facilities means that the fish are processed into collagen or gelatin within 24 hours of being harvested, guaranteeing their freshness as raw materials. The complete production process is tightly monitored to ensure the fastest production, creating a high level of efficiency and quality.



MODERN AND SOPHISTICATED FACILITIES

In state-of-the-art processing plant in Dong Thap, we are able to provide the highest-grade, freshwater collagen and gelatin using the latest machinery. Our modern processing plant meets European standards using a closed-loop, clean-in-place system for high levels of hygiene. Our rigorous water supply treatment station includes multiple stages of filtration, demineralization, High-speed deposition, and sterilization by specific disinfectants. As a result, our treated water before use in production has been shown to eliminate up to 99% of heavy metals, pesticides, and non-biodegradable substances such as PFAS. Before production, the treated water strictly controlled conductivity at less than 10 μ S/cm, meeting drinking water standards.



SAFETY WITH FISH ALLERGY MANAGEMENT

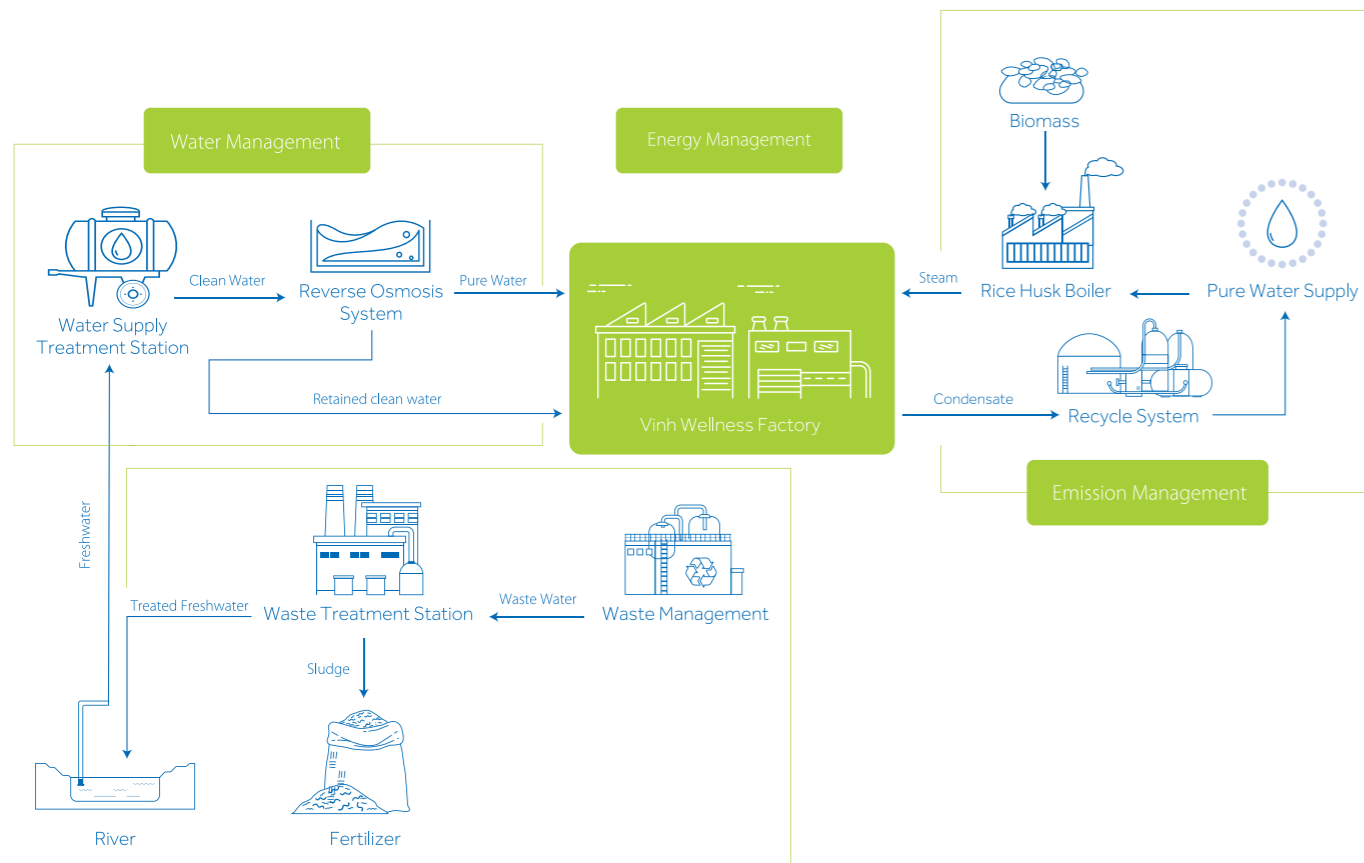
Completely removing epitope protein allergens from fish collagen peptides and gelatin can be challenging. At Vinh Wellness, we eliminate their allergenic potential with Enzymatic Hydrolysis before filtration, then remove Epitope Hydrolyzed after filtration by membrane filtration. As a result, our products are completely safe for consumers.



100% NATURAL

Vinh Wellness Collagen is highly soluble and 100% natural, containing no artificial colors, flavors, additives, or preservatives. It is also free of fat, carbs, sugar, and cholesterol. Unlike collagen from ocean fish, Vinh Wellness Collagen is low in sodium.

INNOVATION



SUSTAINABILITY-DRIVEN INNOVATION FOR A BETTER WORLD

At Vinh Wellness, innovation should drive progress and contribute to a better world. Sustainability-driven innovation is a business strategy that integrates sustainability principles into innovation. The goal is to create environmentally responsible, socially beneficial, and economically viable products, services, and processes. We apply sustainability

principles to our manufacturing processes to minimize carbon footprint and conserve natural resources. That's why we have invested in sustainability-driven innovation focusing on water management, energy consumption, waste management, and emission management.

WATER MANAGEMENT

Reuse and recover wastewater

Our commitment to responsible environmental management includes treating and reusing wastewater in our production processes. We have invested in a state-of-the-art treatment center to ensure that all discharged water meets quality standards, and we also reuse separation water and condensate for washing raw materials. This approach helps us conserve water and reduce consumption by 175,000 liters per day and saves energy on heating while maintaining our core value of environmental sustainability.

FRESH WATER INPUT

(m³ per ton of material)

	2018	2019	2020	2021	2022
	73	64	47	45	46

WASTE MANAGEMENT

Recover wastewater and recycle waste

Recover Wastewater

With over 100,000 m³ of clean water utilized in our production processes annually, we recognize the importance of treating wastewater responsibly. Our treated water eliminates up to 99% of heavy metals, pesticides, and non-biodegradable substances like PFAS. All discharged water meets quality standards thanks to our state-of-the-art treatment center. Environmental responsibility is a core value in all our operations.

Recycle Waste

We take our commitment to environmental sustainability seriously by minimizing the amount of solid waste generated during our production processes. To achieve this, we carefully monitor and control the use of additives, reducing the overall amount of waste produced. Additionally, we utilize the total generated sludge from our processing as a microbial organic fertilizer to improve agricultural land. By doing so, we not only reduce our solid waste but also contribute to sustainable agriculture and support local farmers.

ENERGY CONSUMPTION

Optimize usage performance and replace environmentally fuel

At our company, we value the importance of sustainable practices, including managing our energy consumption. We're always looking for innovative ways to improve our equipment's efficiency and aim to reduce our carbon footprint. We prioritize using European equipment as it helps us achieve our goal of minimizing power consumption.

ENERGY

(MWh per ton product)

	2018	2019	2020	2021	2022
	4.7	4	3.9	4.3	4.1

EMISSION MANAGEMENT

Reduce CO₂ emission and heat loss

Insulation for PHE

At our factory, all Plate Heat Exchangers (PHEs) are wrapped with an insulation layer to prevent excess heat from escaping into the air and causing the air in the work environment to heat up. As a result of the improvement, the working environment temperature at the factory is always in our control.

Use Abundant and Biomass

At Vinh Wellness, we utilize rice husk, an abundant biomass from agriculture, as fuel to generate steam, aiming to save energy costs and make a more sustainable choice. The steam condensate will be collected and recycled to the boiler for reuse, creating a closed-loop steam cycle and reducing the rice husk needed to heat the water.

EMISSIONS COMPARISON

Stack emission of rice husk such as SO_x and NO_x emission of boiler are less than coal-fired and furnace oil boiler

Stack emission	Unit	Coal fired	Rice husk
O ₂	%	15.8	12.4
CO ₂	%	4.54	4.55
NO	mg/Nm ³	237	0
SO ₂	mg/Nm ³	225	9.75
NO _x	mg/Nm ³	237	198

*Source: Masooma Nazar and colleagues, Techno-economic and environmental assessment of rice husk in comparison to coal and furnace oil as a boiler fuel, DE part of Springer Nature 2021

COLLAGEN PEPTIDES

Collagen is the most abundant protein in the human body, constituting roughly one-third of total protein content. It is necessary for the formation of bones, skin, muscles, tendons, and ligaments. Vinh Wellness Collagen is highly soluble and 100% natural, that contains no artificial colors, flavors, additives, or preservatives. It is also free of fat, carbs, sugar, and cholesterol. Unlike collagen from ocean fish, Vinh Wellness Collagen is low in sodium. Additionally, our products are Halal certified and widely accepted across cultures and religions.



COLLAGEN PEPTIDE

Molecular weight (Da)
1000 - 2000
2000 - 3000
3000 - 4000

Appearance
White, fine powder

Solubility
Very good, soluble in cold water

Absorption
High

Odor and Taste
Neutral

Applications
Nutraceuticals

Packaging
Retail 10KG bag/Jumbo 350KG bag



COLLAGEN TRIPEPTIDE TRIOGEN

Molecular weight (Da)
500 - 1000

CTP: GPH:
Min 15% Min 1.5%

Appearance
White, fine powder

Solubility
Very good, soluble in cold water

Absorption
Superior

Odor and Taste
Neutral to light scent, neutral to lightly astringent taste

Applications
Nutraceuticals and Cosmeceuticals

Packaging
Retail 10KG bag/Jumbo 350KG bag



COLLAGEN PEP-X

Molecular weight (Da)
Max 1000

Appearance
White, fine powder

Solubility
Very good, soluble in cold water

Absorption
Very high

Odor and Taste
Neutral

Applications
Nutraceuticals and Cosmeceuticals

Packaging
Retail 10KG bag/Jumbo 350KG bag



COLLAGEN NANO

Molecular weight (Da)
500-1000

Molecular weight (<500Da)
Min 40%

Appearance
Slightly ivory, fine powder

Solubility
Very good, soluble in cold water

Absorption
Very high

Odor and Taste
Neutral

Applications
Nutraceuticals and Cosmeceuticals

Packaging
Retail 10KG bag/Jumbo 350KG bag



COLLAGEN PEP-V

Molecular weight (Da)
Max 500

Appearance
Ivory, fine powder

Solubility
Very good, soluble in cold water

Absorption
Very high

Odor and Taste
Light smoky scent, neutral to astringent taste at high concentration

Applications
Nutraceuticals and Cosmeceuticals

Packaging
Retail 10KG bag/Jumbo 350KG bag

SUITABLE Applications OF COLLAGEN PEPTIDES



HEALTH AND WELLNESS

Vinh Wellness Collagen is easily absorbed by the body, and helps:

- Maintain connective tissues
- Build muscle
- Enhance joint structure



NUTRACEUTICALS

For nutritional and dietary products, Vinh Wellness Collagen is well suited for:

- Amino acid supplements
- Weight management products
- Any product aimed at preventing wrinkles and promoting health, smoother, younger-looking skin



COSMECEUTICALS

For beauty care and anti-aging products, Vinh Wellness Collagen:

- Improves skin elasticity
- Enhances water absorption capacity
- Aids in wrinkle reduction

GELATIN

Vinh Wellness gelatin delivers a unique amino acid profile, characterized by high glycine, proline and hydroxyproline, accounting for about half of total amino acids. Our gelatin is derived from one species of freshwater, tropical fish called pangasius hypophthalmus. That gives Vinh Wellness gelatin a highly beneficial amino acid profile, meeting the most stringent demands of the pharmaceutical industry and being a good choice for high-end food and beverage applications. Because it contains no pork or beef products, Vinh Wellness gelatin is widely accepted across cultures and religions.



FOOD GRADE

Gel Strength (Bloom)
200 (± 15); 250 (± 15)
Viscosity (mPas, 6.67% at 60°C):
≥ **2.0**; ≥ **2.5**
Applications
Confectionery, dairy, desserts
Packaging
Retail 15KG bag/Jumbo 550KG bag



PHARMACEUTICAL GRADE

Gel Strength (Bloom)
200 (± 15); 250 (± 15)
Viscosity (mPas, 6.67% at 60°C):
≥ **2.8**; ≥ **3.0**
Applications
Soft capsules, coating of tablets
Packaging
Retail 15KG bag/Jumbo 550KG bag



SUITABLE Applications OF GELATIN



FOOD & BEVERAGE

- High-end food and beverage applications
- Companies seeking to enhance their brand's environmental or social responsibility profile
- Products with international or cross-cultural distribution



PHARMACEUTICALS

- Soft capsules
- Companies seeking to enhance their brand's environmental or social responsibility profile
- Products with international or cross-cultural distribution



Modern AND SOPHISTICATED FACILITIES

With our state of the art processing plant in Dong Thap, we are able to provide the highest-grade, freshwater collagen and gelatin using the latest machinery. Our modern processing plant meets European standards using a closed-loop, clean-in-place system for high levels of hygiene that is certified by WHO-GMP, HACCP and ISO.



A MULTI-LEVEL APPROACH TO SERVICE

Vinh Wellness believes that manufacturing premium products is just one element of our success. Our accompanying service ensures that we equally match our high quality products. Our premium support includes:

- | | | | |
|--|---|--|---|
| Formulation support, research, manufacturing under our clients' brands | Customization for special requests or technical questions | Extensive quality control checks on all products | Highly personalized support before, during, and after sales |
|--|---|--|---|

OUR Certifications

 WHO GMP Good Manufacturing Practices (GMP)	 HALAL Halal Certification <small>MS 1500-2009 1002-07/2016</small>	 Best Aquaculture Practices (BAP) <small>Processor Farm Hatchery Feed</small> <small>bapcertification.org</small>	 GLOBAL G.A.P. MEMBER 2016 Proud to be a	 HACCP CERTIFIED
 ISO 9001 ISO 9001: Quality Management	 ISO 14001 ISO 14001: Environmental Management	 FARMED RESPONSIBLY asc CERTIFIED <small>ASC-AQUA.ORG</small> Aquaculture Stewardship Council (ASC)	 FARMED RESPONSIBLY asc CERTIFIED <small>ASC-AQUA.ORG</small> Aquaculture Stewardship Council for Chain of Custody (ASC-CoC)	



Corporate SOCIAL RESPONSIBILITY

We understand that as a corporate entity, we have a responsibility to contribute to society and improve the lives of those around us. That is why we have made Corporate Social Responsibility (CSR) a fundamental part of our business strategy. Annually, our company engages in a range of CSR activities that benefit both our employees and the wider community.



EMPLOYEE CARE

Training Course

We believe that investing in our employees' personal and professional development is key to their success and the success of our organization. To this end, we provide our employees with access to a range of training courses to enhance their skills and knowledge in various areas.

Team Building

Furthermore, we understand that team-building activities are essential in building a positive and cohesive corporate culture. These activities not only foster a sense of camaraderie among our team but also improve their overall well-being and job satisfaction.

Health and Wellness

We also engage in physical activities that promote health and wellness. Our company regularly participates in running and marathon challenges as well as other fitness events to encourage our employees to stay active and healthy. By prioritizing physical health, we hope to create a work environment that values and supports the holistic well-being of our employees.

SOCIAL SUPPORT

We are proud to be part of a larger corporate family that shares our commitment to CSR. Our parent company, Vinh Hoan Corporation, is actively involved in social and environmental initiatives that have a positive impact on the communities where we operate. By partnering with our parent company, we can combine our efforts and resources to make an even greater impact and contribute to a better future for all.