RAWGA

식물기반의 기능성 대체원료를 개발하여 헬스케어 생태계를 만드는 바이오헬스케어 기업

A bio-healthcare company that develops plant-based functional alternative raw materials to create a healthcare ecosystem



The world's first developer of plant-based collagen A global alternative food company with a vertically integrated structure from R&D to commercialisation based on the world's best technology.

2017′

-Lao Organic Valley Creation

2019'

-Functional Organic Plant Research

2020′

-Technology development of plant collagen

2021'

- -Development of cosmetic composition containing hibiscus collagen peptide
- -Developed food composition containing hibiscus collagen peptide
- -Vegan certification of vegetable collagen
- -Launched 'Plant Collagen' brand

2022'

-Entered department stores and pharmacies

-Won the Grand Prix at SIAL PARIS for the first time in Korea in the raw material category

-ISO 9001:2015 certification

2023'

- -KMF Halal Certification
- -Launched plant collagen raw material application products
- -Selected as the paradigm brand of plant-based, NYC Summer Fancy Food Show
- -ISO 22000:2018 certification
- -Completion of preclinical studies on plant-based collagen
- -Investment from CJENM
- -Antioxidant Composition Analysis Project in Seoul National University

2024'

- -Researching clinical effects of plant collagen
- -Exported to 5 countries (Malaysia, Kuwait, Russia, USA, Singapore)
- -Business agreement with Amway, Nestle, and Lotte
- -Won 2 Anuga Select Janpan Innovation Awards
- Innovative ingredient usage
- Health and nutritional innovations
- -Brand 'Plant Collagen' TVCF, PPL planned (May)
- -Launched as a plant collagen booster for RTD beverages (May)
- -Dongwon Green Denmark product launch scheduled (May)
- -Finalist in VitaFood Startup Innovation Challenge (May)



4 R&D







Global Patents Research Papers



Exporting Countries



400 Global

Global No Partners produ

PLANT P

Number of products covered



We diagnose problems.

Problems with mad cow disease, foot-and-mouth disease, heavy metals, etc. of animal raw materials

Collagen is extracted from the skin and bones of cows and pigs, fish skin, and scales. As a result, problems unique to raw materials such as bovine mad cow disease, pig foot-and-mouth disease, heavy metals in fish, and microplastics are being raised.

A large amount of synthetic additives added to conceal the fishy taste Collagen has a fishy taste that is difficult to eat because it is extracted from cows, pigs, and fish. Therefore, when making a product, various kinds of synthetic additives for taste, flavor, and color that hinder health to mask fishy taste are added.

Health Problems Due to Increased Animal Food Consumption
Collagen is a type of protein that you must take. However, if you are
concentrated on animal protein, the risk of lifestyle diseases such as
metabolic syndrome increases. Therefore, studies* have shown that it is
desirable to consume one-third of the protein as animal and two-thirds
as vegetable.

Development of health functional food raw materials that require high initial investment costs

It takes at least three years and high investment costs to find high-efficiency crops with functional ingredients, develop technologies to commercialize them, and obtain data to prove the safety and validity of the developed raw materials.

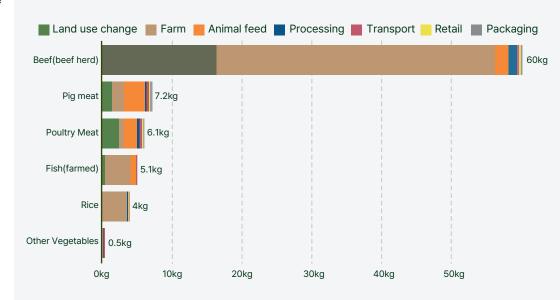
Animal raw materials with higher carbon emissions than plants
The FAO said 18 percent of the global greenhouse gas emissions are
attributed to livestock.**According to Our World in Data, based on 1KG
production, beef is about 60kg, farmed fish is about 5kg, and plants are
about 0.5kg carbon emissions.

*HERNÁNDEZ, Miguel, et al. The protein efficiency ratios of 30: 70 mixtures of animal: vegetable protein are similar or higher than those of the animal foods alone. The Journal of nutrition, 1996, 126.2: 574-581.

**STEINFELD, Henning, et al. Livestock's long shadow: environmental issues and options. Food & Agriculture Org., 2006.

Food: greenhouse gas emissions across the supply chain

Greenhouse gas emissions are measured in kilograms of carbon dioxide equivalents (kgCO2eq) per kilogram of food. This means non-CO2 greenhouse gases are included and weighted by their relative warming impact.

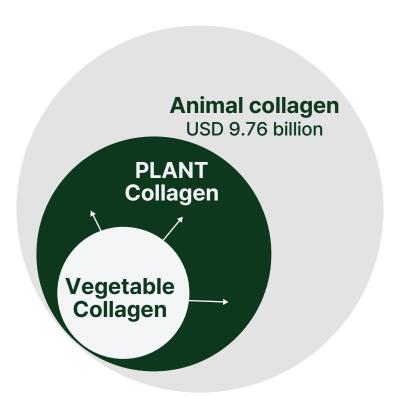


Source : Poore, J., & Nemecek, T.(2018). Reducing food's environmental impacts through producers and consumers, Science OurWorldInData.org/environmental-impacts-of-food-CC BY



Communication goals for 2024

Increase access to plant-based collagen sources and own-brand 'PLANT Collagen' Replace 10% of global collagen MS by 2025



Increase awareness of 'PLANT Collagen' brand as a representative brand of plant-based collagen

Encourage replacement of animal collagen > plant collagen, conveying a sense of popularity

Functional competitive advantage of plant collagen compared to conventional collagen



Verticalisation of the vegetable collagen industry

We have designed the entire value chain from raw material to final product.

EXtraction technology development

Cultivation of extraction materials

Raw material production and distribution

Brand management and marketing









Patent for the development and manufacture of vegetable collagen



Established
an organic valley
in Laos to grow
exclusive organic crops



Supplying raw materials to domestic and foreign manufacturers and brands



Launched the brand
"PLANT" and distributed
to drug stores,
convenience stores, and
department stores

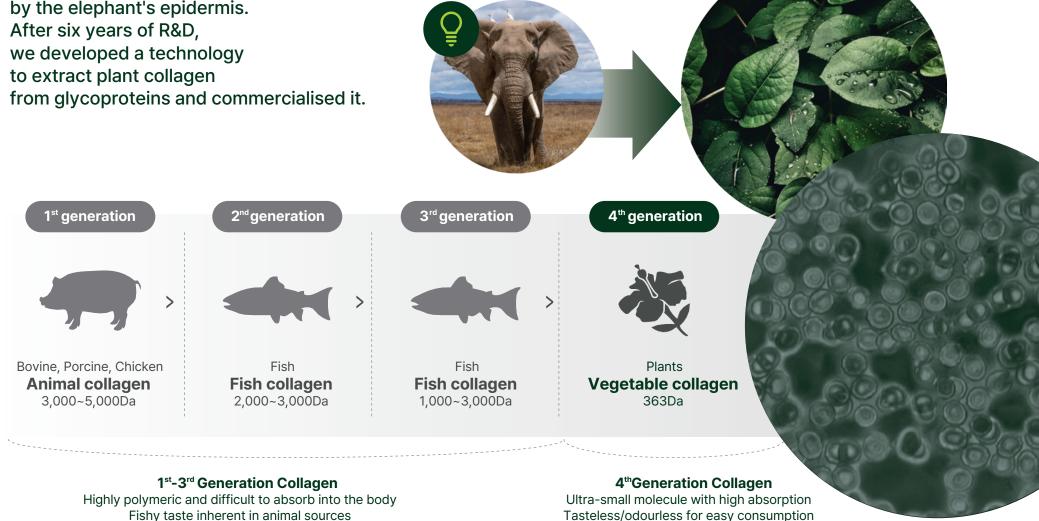




Vegetable Collagen

The world's first plant-based collagen was inspired

by the elephant's epidermis.



Fishy taste inherent in animal sources



The only alternative to animal collagen on the market

Vegetable collagen is the only alternative to the global USD 9.76 billion animal collagen market.

Safe ingredients

PLANT

Sourced from organically grown plants in pristine Laos, our vegetable collagen is free from mad cow disease and microplastics.

0% fishy taste / synthetic additives

저분자피쉬콜라겐, 이소말트, 무수결정포도당, 글리신, 세븐베리농축분말[세븐베리농축액(블랙베리농축액(독일산), 블랙커런트농축액(독일산))], DL-사과산, 비트레드, 혼합제제1(블루베리항분말/분당, 항료), 비타민C, 혼합과일농축분말(열대혼합과일농축액(이스라엘산)), L-프롤린, 구연산(무수), 혼합제제2(딸기항코톤(덱스트린, 유당, 항료, 펙틴, 프로필렌글리콜), 호소처리스테비아, 이산화규소, 엘라스틴가수분해물분말(미국산), BB LAB 컴플렉스(SF3X-7), 니코틴산아미드, 히알루론산혼합제제(덱스트리, 하알루론산), 댕댕이나무열맥추줄물분말, 황칠농축분말, 수크랄로스(감미료), 비타민요혼합제제(포도당시럽분말, 옥수수전분, 아라비아검, 분말비타민A, 비타민E), 기타농산가공품(드라코벨뉴), 17종혼합유산균, 건조효모

저분자콜라겐펩타이드(기능성원료 인정 제2013-30호, **다니만산**), 나아스코브산나트륨, 아셀렌산나트륨혼합제제(아셀렌산나트륨, 제이인산칼슘), 비타민D3혼합제제(비타민D3, 아라비아검, 자당, 옥수수전분, MCT오일, 이산화규소, 비타민E), 비오틴, 결정셀룰로스, 엘라스틴가수분해물(프랑스산), 혼합제제[히드록시프로필셀룰로스, 히드록시프로필메틸셀룰로스, 이산화티타늄(착색료)], 이산화규소, 카복시메틸셀룰로스칼슘, 스테아린산마그네슘, 히알루론산

Plant-based collagen doesn't have the fishy taste of animal collagen and doesn't require synthetic additives.

Contains antioxidants



Contains phytochemicals, antioxidants unique to plants, such as polyphenols and flavonoids, which are not found in animal products.



Patent & Certification

PLANT has proven that it is a biologically, chemically and physically safe product through numerous patents and certifications.

Continuous research in progress other than SCI-level self-published thesis ¹

Food Composition Containing Collagen

Peptide Patent Certificate ²

Pesticide ingredient non-detection report 3

Vegetable collagen peptide manufacturing method

Patent certificate 4

KMF HALAL Certification 5

Heavy metal test report 6

Hibiscus Organic Certificate 7

Koreavegan Certification⁸

ISO 9001 Quality Management System Certification ⁸ Ministry of Food and Drug Safety HACCP Certification ⁸





















Research on plant-based functional ingredients

PLANT Research Team: 35 years of experience in research A total of 10 people, including researchers with master's and doctoral degrees.

The plant research team wants to replace existing fish collagen with vegetable. Therefore, we developed vegetable collagen through patented advanced technology.

We want to create a sustainable healthcare ecosystem by developing plant-based functional alternative raw materials.











B2B PARTNERS

We share the positive values of veganism and plant-based with a wide range of B2B partners both locally and internationally.

We provide an alternative source of plant-based collagen to the saturated collagen market. We are leading the sustainable vegan culture to popularise vegan inner beauty.

Supply of raw materials for plant-based collagen

- D'Alba Veganery: Vegetable Collagen 3,270mg / booster ampoule 5,000mg / First shot
- Samyang Foods Vegetable Protein Drink : Jack & Pulse Protein Drops
- Everydaze : Essential Konjac Jelly/Essential Collagen Solution







ONLINE Partners

We partner with nutrition specialists and companies to expand the reach of plant-based collagen.





























OFFLINE STORE

To engage with consumers, we are expanding our brick-and-mortar stores in consumer touch points at home and abroad.







RAWGA Sustainable Health & Nutrition

GLOBAL EXHIBITION

Through participation in the world's leading trade fairs, we are promoting the functional value of plant-based collagen as the next generation of inner beauty ingredients.









Dubai BEAUTY WORLD





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