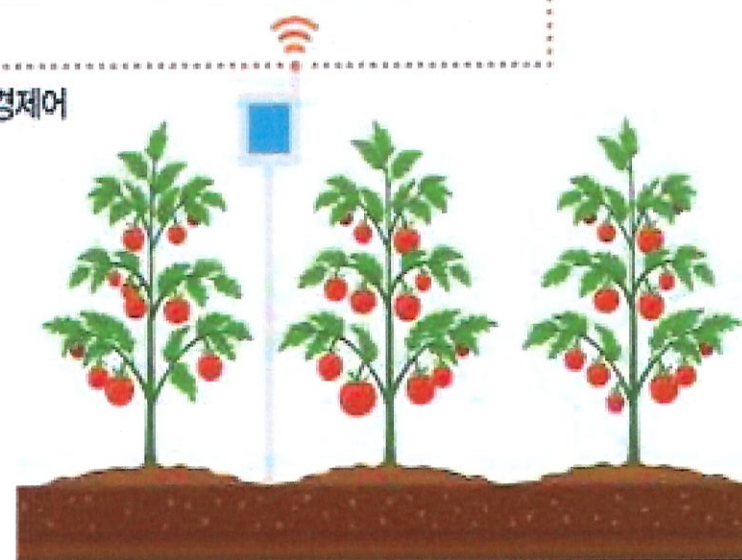


- World's First Successful Development - AI & Smart Farm-Based Pesticide-Free Ginseng C

(6th Industry Integration: Bio Products, "Royal Ginseng" Cosm



ICT 환경제어



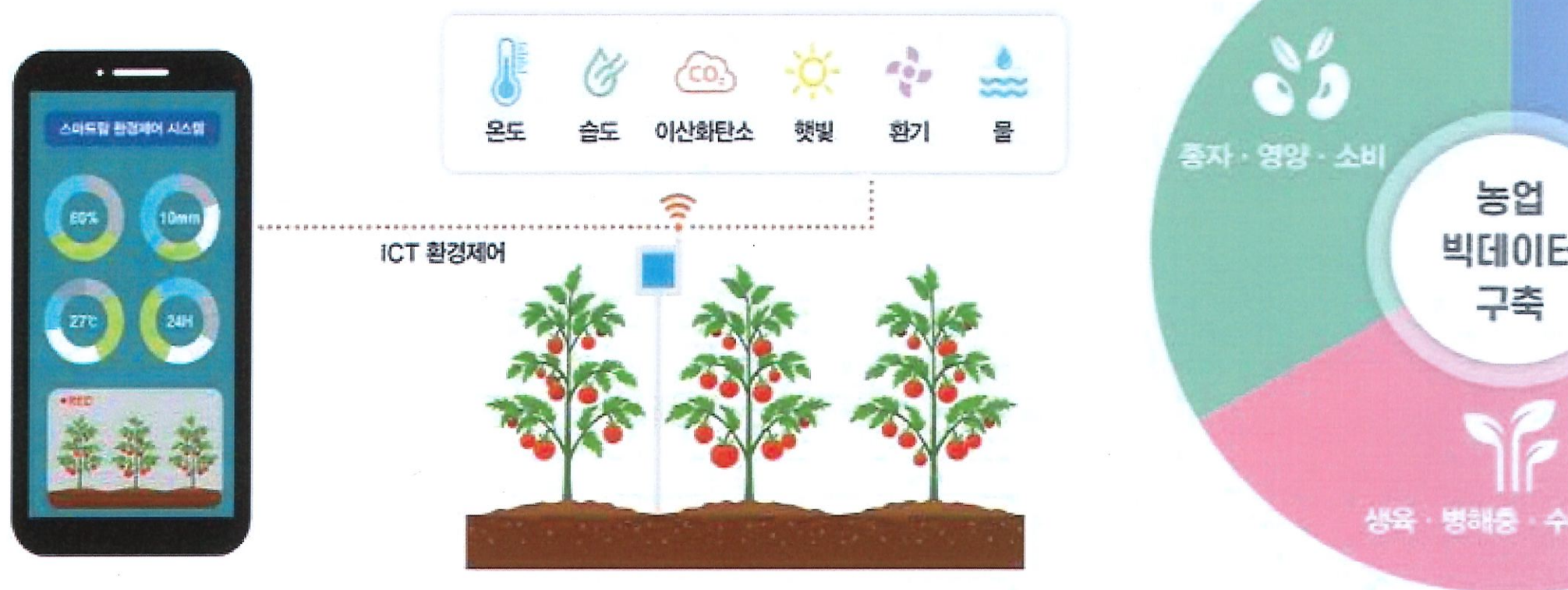
(Patent No. 10-1630950 / Patent No. 10-2082248)

(Excellent Technology Certification by the Ministry of Agriculture, Food and Rural Affairs)

AI and Smart Farm Management (From 3rd to 6th Generation Agricultural Systems)

- Leadership in the Future of Agriculture through Artificial Intelligence (AI)

시설재배 스마트팜 시스템



Success Factors for Pesticide-Free Ginseng



- Achieved stable production of pesticide-free, fertilizer-free ginseng for over 20 years through AI-driven Smart Farming.
- A proprietary cultivation method that fundamentally addresses the excessive pesticide usage problem in open-field ginseng farming. 80–100 applications are required over a six-year cycle, leading to declining consumer demand.
- An innovative technology that fundamentally resolves the climate constraint announced by the Rural Development Administration, which declared open-field ginseng farming infeasible during high summer temperatures.
- Pesticide-free ginseng high-saponin concentrate shows significantly higher saponin content than six-year-old open-field ginseng (Rg1: +425%, Rg2: +2,260%).
- Demonstrates superior competitiveness for use as pharmaceutical raw materials, functional health food ingredients.

Pesticide-Free Ginseng Smart Farm Cultivation and Harvesting Scene (Headquarters)



Current Status of New Product Development

• Introduction of Our Newly Developed Functional Health Food for Diabetes Management

1. Product Name: **Green Life “Dang Power” (tentative)**
2. Research Period (2 years): 2021 – December 31, 2022
3. Research Budget (880 million KRW): 600 million KRW (national R&D funding) + 280 million KRW (Green Life Co., Ltd.)
4. Research Team: 16 members (collaboration between Chungnam National University, Department of Pharmacy; Hannam U of Food and Nutrition; and Green Life Co., Ltd. R&D Division)
5. Research Publication: 1 domestic academic paper
6. Patent: 1 patent application filed by Green Life Co., Ltd. (pending)
7. Efficacy: Helps regulate blood glucose and improve blood circulation, Suppresses excessive glucose levels using natural ingredients
(Notably, this product demonstrates unique glucose-capturing functionality, unmatched by any existing pharmaceutical solutions)

The above outcomes were verified during the second joint research evaluation meeting with participation from both partner universities and the company.

Absence of **Glucose-Regulating**
Pharmaceuticals

**Natural Amadori Compound
Derived from Pesticide-Free
Ginseng Concentrate**

Registration as a Functional
Health Food
(Mass Production in Preparation)

Zero Toxicity

AF Content: 13.67%
(Conventional Red Ginseng:
0.5%)

Pesticide-Free Ginseng High-Saponin Concentrate (65 Brix)

- Applications: Pharmaceutical Ingredient, Functional Health Food Ingredient, Cosmet



Product Name	Features
Pesticide-Free Ginseng High-Saponin Concentrate (65 Brix)	● Patent No. 10-2219273 ● Patent No. 10-2082248 ● Published in the Korean Journal of Medicin April 2009 Issue ● Raw Materials: Pesticide-Free Ginseng Ro Flowers - Korean Rural Development Administration fir High levels of F5 saponin, not present in six-y red ginseng, discovered in pesticide-free ginse - Efficacy : Anti-inflammatory, Whitening, Ble Reduction, Melanin Suppression - National R&D Announcement : Mokwon Un of Cosmetic Science—recognized for skin ce antioxidant efficacy, wrinkle improvement, to

Comparison Table of Saponin Components Between This Technology and Open-F

Collaborative Publication: Professor Jae-Eul Choi,
Chungnam National University & Green Life Co., Ltd.

Total saponin in ginseng leaf and flower exceeds six-year-old ginseng by 1.4959

mg/g	Rg	Re	Rf	Rg2	Rh1	Rb1	Rc	Rb2	Rb3
6-Year-Old Ginseng Root	6.594	2.551	1.872	0.413	0.490	3.923	1.195	0.874	0.334
Ginseng Leaf	22.091	32.692	0.930	2.433	0.491	1.304	8.643	8.075	0.961
Ginseng Flower	5.186	54.041	4.927	1.516	0.818	5.253	5.528	5.575	0.997

● Edible Product: Pesticide-Free Ginseng, Ginseng Leaf, Stem, and Flower (Approved by the Korea Food and Drug Administration)

- High Re Content in Ginseng Flowers: 21 times higher than in six-year-old ginseng roots, resulting in hypertension, blood sugar management (diabetes), cell membrane protection, and anti-aging
- High Rd Content in Ginseng Leaves: 132 times higher than in six-year-old ginseng roots, with b

Superior Efficacy of Pesticide-Free Ginseng

Superior Anti-Diabetic and Anti-Cancer Efficacy of Pesticide-Free Ginseng

Pesticide-free ginseng demonstrates excellent anti-diabetic and anti-cancer effects, as verified and presented by university professors at the 14th Geumsan International Ginseng Symposium.

❖ **Professor Si-Gwan Kim of Konkuk University highlighted, through modern scientific research, that ginseng shows preventive benefits against diabetes, lung cancer, cerebral infarction, and influenza.**

- Prevention of diabetes, lung cancer, cerebral infarction, and influenza
- Inhibition of cancer cell proliferation and promotion of cellular differentiation in long-term (4,600-subject comparative study)
- Enhancement of anti-cancer drug effects and outstanding defense against drug toxicity
- Immune function improvement via stimulation of interferon production and increased macrophage activity
- Effective in renal complications
- Over 40% reduction in lung cancer incidence among smokers consuming ginseng
- Cerebral infarction treatment: suppressing up to 81% of oxygen-deficiency-induced brain damage and improvement of disease stage

Superior Efficacy of Pesticide-Free Ginseng

Superior Anti-Diabetic and Anti-Cancer Efficacy of Pesticide-Free Ginseng

Pesticide-free ginseng demonstrates excellent anti-diabetic and anti-cancer effects, a research presented by university professors at the 14th Geumsan International Ginseng

- ❖ Professor Sung-Hyun Jeong from Kyung Hee University demonstrated the blood glucose regulatory effects of pesticide-free ginseng concentrate in patients with type 2 diabetes
- Proof of Blood Glucose and Insulin Regulation Effect in Type 2 Diabetes Patients
- Benefits of Pesticide-Free Ginseng Concentrate: Immunity Boosting, Fatigue Relief, Platelet Inhibition, Improved Blood Flow, Enhanced Memory, Antioxidant Activity
- Blood Pressure: Cardiovascular Support, Normalization of Hypertension and Hypotension
- Metabolism Regulation
- Anti-Cancer Effect: Inhibition of Cancer Cell Growth, Notably Strong Suppression of Cervical Cancer Cell Proliferation
- Stomach and Liver: Regulation of Gastric Acid and Pepsin Secretion, Normalized Recovery in Liver Patients

Comparison Table of Ginseng Cultivation Methods

Characteristics Comparison of Ginseng Cultivation Methods

Category	Pesticide-Free Smart Farm (Headquarters)	Hydroponic Nutrient Solution Cultivation	Trade
Use of Pesticides and Fertilizers	None	10 pesticide applications on seedlings	80-10
Soil	Organic Green Substrate	Nutrient solution, soil substitute	
Saponin Content	Up to 132 times higher than open-field	Slight presence	
Annual Maintenance Cost	1,000,000 KRW	100,000,000 KRW (for 2 production cycles)	
Cultivation Layers	2-layer	2-3 layers	
Facility Cost (118 pyeong)	190,000,000 KRW (for 2-layer)	400,000,000 KRW	
Ginseng Certification	Certified (grown on soil >3 years)	Not certified (grown <3 years)	
Growth Rate	1.5 times faster than open-field	Less than 3 months growing period	1
Yield (kg per 118 pyeong)	Approx. 350 (75% marketable yield)	300	

Smart Farm Cultivation

Using Pesticide-Free Ginseng

Cosmeceutical Business Plan



Royal Ginseng Cosmetics and Conventional Ginseng Cosmetics Comparison

Category	Green Life Cosmetics	Conventional Ginseng Cosmetics
Cosmetic Raw Materials	Use of pesticide-free ginseng roots, leaves, stems, and flowers	Use of six-year-old ginseng
Pesticide Usage	No pesticides used	More than 10 pesticides used on six-year-old ginseng
Saponin Content (F5) (Korean Rural Development Administration Announcement)	Contains F5 saponin (from pesticide-free ginseng) Whitening, freckle reduction, anti-aging, wrinkle improvement Cell membrane protection, anti-inflammatory effects	F5 saponin in conventional ginseng
Ingredient Composition	0.3% high-concentration ginseng extract, aloe vera, squalane, and other ingredients	0.1–0.2% ginseng extract and other ingredients
Cosmetic Raw Materials Usage	Use of pesticide-free ginseng roots, leaves, stems, and flowers	Use of six-year-old ginseng
Product Pricing	Negotiable	300,000 KRW to 3,000,000 KRW
Types of Cosmetics	Fifteen products including Royal Ginseng toner, lotion, essence, cream, ampoule, soap, etc.	Various types of cosmetics

❄️ **Cosmetic Product Introduction**
(KFDA Recognized Functional Ingredients: Whitening + Wrinkle Improvement)



Product Name	Royal Ginseng Co
Set Components (1 set) HS CODE:3304	Royal Ginseng Royal Ginseng Royal Ginseng Royal Ginseng * Individual also available
Product Line	Basic Skinca
Minimum Supply Quantity	Nego
Features	Contains pesticide-f through patented s technology by

Cosmetic Product Introduction : Royal Ginseng Cosmetics **(Dual Function: Whitening + Wrinkle Improvement)**

Royal Ginseng Toner (120 ml)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Aloe Vera Leaf Extract (1.0%) ● Function : Removes impurities and dead skin cells to reveal soft, moist skin
Royal Ginseng Lotion (120 ml)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Squalane (1.0%) ● Function : Contains saponins with excellent cosmetic efficacy
Royal Ginseng Essence (50 ml)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Tocopheryl Acetate (Vitamin E) (0.1%) ● Function: Delivers radiance and clarity to the skin
Royal Ginseng Cream (50 g)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Squalane (0.5%) ● Function: Contains ingredients that aid whitening and skin elasticity
Royal Ginseng Cosmetics		● Premium Korea Ginseng cosmetics enriched with F5 saponin concentrate

❁ 4th Generation Cosmetic Product Manufacturing (World-Class Ingredients, Sales Target of 100 Billion KRW)

Product Developed through National **R&D and Patented Technology**,
Collaboration between Mokwon University Department of Cosmetics Science and Headquarters

Royal Ginseng Toner Essence (150 ml)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Selected world-class cosmetic-grade ingredients, including Vitamin C and ● Product Features: Contains 80 types of ingredients - Dual Functional Cosmetics: Whitening + Wrinkle Improvement
Royal Ginseng Ampoule (50 ml)		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Selected world-class cosmetic-grade ingredients, including Collagen and ● Product Features: Contains 60 types of ingredients - Dual Functional Cosmetics: Whitening + Wrinkle Improvement
Royal Ginseng Cream		● Active Ingredients - Pesticide-Free Ginseng Root, Leaf, Stem, and Flower Saponins (0.3%) - Selected world-class cosmetic-grade ingredients, including Collagen and

Headquarters Ampoule and Soap Detailed Description



Product Name	Features
Royal Ginseng Pesticide-Free Ginseng Ampoule (30 ml) HS CODE: 3304,99,1000	● Patent No. 10-2082248 ● Patent No. 10-2224172 ● Functional Ampoule (Whitening Improvement) ● Contains Astaxanthin ● Contains 0.5% Pesticide-Free Concentrate
Royal Ginseng Pesticide-Free Ginseng Soap (100g x 3) HS, CODE: 3401. 11.9000	● Patent No. 10-2502634 ● Patent No. 10-2673781 ● Contains 0.2% Pesticide-Free Concentrate ● Contains Natural Volcanic Island ● Contains Natural Ingredients: Angelica, Peony, and Licorice

Headquarters Ampoule and Soap Detailed Description

International Demand for Pesticide-Free Ginseng Smart Farm and High-Concentrate Cosmetics Accelerates Korean Agricultural K-Wave

Green Life Utilizes Entire Pesticide-Free Ginseng Plant (Root, Stem, Leaf, Flower)
Patented Technology Ensures Pest and Disease-Free Cultivation with High Saponin Content
Development of New Formulations for Blood Glucose Control in Diabetes Using Pesticide-Free Ginseng



Green Life Co., Ltd. Receives Korea Enterprise Innovation Award



Agricultural Corporation Green Life Co., Ltd. Executive Director

On November 19, Agricultural Corporation Green Life Co., Ltd. received the Korea Enterprise Innovation Award presented by the Chairman of the National SMEs Committee at the 2021 Korea Small and Medium Enterprise Innovation Awards ceremony. In its 13th year, the Korea SME Innovation Awards ceremony is established by Korea Herald and organized by Power Korea Monthly. Established this award aims to identify and encourage small and medium-sized enterprises that have developed innovative products and services.

Sales & Marketing Performance: Export Records to 6 Countries Across 18 Instances

Superior Anti-Diabetic and Anti-Cancer Efficacy of Pesticide-Free Ginseng



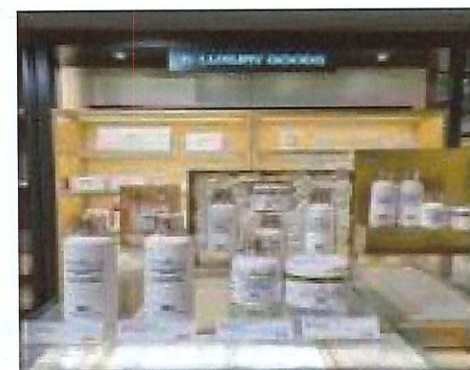
Beauty Shop in Osaka, Japan



Ginseng Cosmetics Retail Stores in Vietnam (BUY2SELL in Ho Chi Minh City, Hanoi, Da Nang)



Two Partner Companies Outside SHFS in Florida, USA (Photos of Storefront by CEO Lisa)



Participation at K-Beauty Expo in Taiwan

2021 Export Record

Export to USA

Export to Vietnam

Export to Japan

2022 Export Record

First Export to the United States

First Export to Vietnam

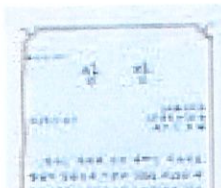
Export to China

Se
Expo
Unite

2023–2024 Export Record (Four Exports to the USA)

Awards and Honors

2021 Korea SME Innovation Award

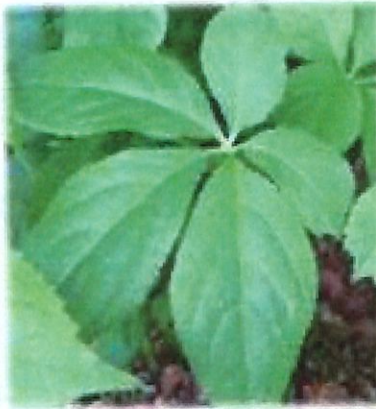


- Award Date : November 19, 2021
- Award Title : Korea SME Innovation Award
- Awarding Body : National Assembly Industry,

2019 Consumer Contribution



- Award Date : November 19, 2019
- Award Title : Consumer Contribution Award
- Awarding Body : Korea Consumer Commission



- World's First Development Suc

Green Life Co., Ltd. is achieving world-first transforming conventional open-field ginseng advanced 「**Pesticide-Free Ginseng Smart Far**

The company is committed to increasing far promoting this new model and is evolving as an bio company with the goal of developing **ne** **pharmaceuticals** utilizing 「**pesticide-free g** **materials**」.

Green Life Co., Ltd.

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