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Let us help you to smile  
at every moment of your life

Adding happiness to your life like the sunlight and the wind that quietly exist among us - This is the nature of what we do here at Samyang. Over the last 100 years, Samyang has been working to improve lifestyle standards in a more convenient way and continues to do so. Samyang prepares for the next century, grounding ourselves in invaluable tradition and expertise. Samyang aims to evolve into a global brand, specializing in the reinforcement of the existing core businesses and the advancement of our business structure within the fields of chemicals, food, biopharmaceuticals, and packaging. Carrying on the traditions of the past, Samyang remains constant to our values. We are rooted in our dedication to create an even better 100 years for your abundant and convenient lifestyle.

## Convenience You Can Rely On

The unique value of chemical materials, though not readily visible, creates the groundwork for a multitude of lifestyles so that you can enjoy the fulfillment of an enhanced way of life in each passing moment. They are the assets that will deliver the lifestyle you deserve.

## Abundance for All Walks of Life

Food is the soul of life. Samyang's food ingredients and products reward you with healthier and tastier daily meals. Rooted in expertise, Samyang progressively develops its core ingredients with unique intrinsic values while implementing an innovative distribution network, as part of the endeavor to become your guide in creating a rich dietary lifestyle.

## Rewarding You with Health and Longevity

● Biopharmaceuticals ● ●

Samyang offers an unprecedented, novel solution to lay the groundwork for a happy and healthy life. Samyang devotes itself to ensuring high-quality medical care by developing high-quality healthcare products, driving innovation in pharmaceuticals, and stepping forwards as a medical device industry.

The image on this page is a surgical suture of Samyang Biopharmaceuticals Corporation.

Delivering Enjoyment Wherever You Are

A packaging technology that safely carries the essentials to ensure reliability whenever and wherever you need it. Samyang now moves beyond Korea into the global market. Our pioneering expertise and R&D standards, as well as our bold advancement into the global market, provide the dynamic required to develop into a global packaging brand that meets all of your special needs.

● Packaging●●

## Message from the Chairman

With the objective of realizing our vision of ‘Ingredients that add value to life,’ we are working to ensure that all business philosophies and strategies are in line with actualizing our vision throughout the next century that lies ahead. Samyang focuses its operations on becoming a global company with specialized products and services while exploring potential new businesses and promises continual growth and innovation in the advent of the Fourth Industrial Revolution.

I would like to express my sincere gratitude to everyone who has shown their support to Samyang, as we have evolved under the principles of ethics and trustworthiness in business management since our establishment in 1924.

With our 100 years of development history, Samyang is preparing for the next 100 years ahead with years of accumulated experience. Samyang established the ‘WIN 2020’ vision in our tenacious effort to protect and uphold the value of ‘Ingredients that add value to life – Samyang’ amid rapidly changing times, continuously leading the wave of change and heading towards becoming a trendsetting global brand.

Samyang aims to provide extraordinary values to our customers by fortifying our competitive edge in the global market within the four core business sectors of chemicals, food, biopharmaceuticals, and packaging, along with the creation of specialized services. We are implementing an active response in the advent of the Fourth Industrial Revolution by discovering potential new businesses and establishing a future-oriented portfolio while pursuing the innovation of digital technology for the promotion of sustainable growth.

Our purpose lies in evolving into a global brand that meets competency standards from around the world by staving off complacency in the present and boldly pushing the limits of the R&D industry through business innovation and the bolstering of partnerships with world-renowned organizations.

Even amid the groundbreaking changes in store during the Fourth Industrial Revolution, we ask for your continued devoted interest and warm encouragement to enable Samyang to develop into a company that ensures the creation of a lifestyle of abundance and convenience living for all.

Yoon Kim  
Chairman, Samyang Holdings



We prepare for the next 100 years ahead based on our expertise acquired  
**our vision of**



from the past century, as we dedicate ourselves to  
**‘Ingredients that add value to life.’**

## Samyang At a Glance

Since our foundation in 1924 by Kim Yeon-su, also known under the pseudonym of Sudang, Samyang Group has entered into the markets of sugar manufacturing, integrated synthetic fiber, and flour milling based on righteous and trustworthy management, and greatly contributed to both the increase in Korea's living standards through the provision of food, clothing, and shelter, and the development of the national economy. Upon entering the 21st century, Samyang Group established the vision of 'Ingredients that add value to life' and proceeded to build our core businesses in chemicals, food, biopharmaceuticals, and packaging.

Based on our competitive edge in these sectors, we have dedicated ourselves to the pursuit of change and innovation in order to become an R&D-based global company offering specialized products and services while exploring new business growth engines.

In November 2011, Samyang Group was launched as a holding company to set apart the manufacturing and investment businesses to essentially promote corporate governance transparency and increase our brand name value.

Samyang Holdings has various subsidiaries that operate major businesses, including Samyang Corporation, Samyang Biopharmaceuticals Corporation, and Samyang Packaging, and currently practices prompt decision-making and responsibility in management tailored to the traits of each business sector.



### Chemical Businesses

Samyang's chemical businesses have secured global competitiveness by completing vertical integration centering on polycarbonates, currently in the spotlight for use as an engineering plastic (EP). In addition, we have also been concentrating on the development of Specialty Chemical as well as diversifying our proprietary technology in varied business areas, such as electronic materials and ion-exchange resin.

#### Samyang Corporation

Engineering plastics / Electronic materials / Ion-exchange resin / White biotechnology

#### Samnam Petrochemical

TPA (Terephthalic Acid)

#### Samyang Kasei

Polycarbonates

#### Samyang Innochem

BPA (Bisphenol A)

#### Samyang Fine Technology

UPS (Uniform Particle Sized) ion-exchange resin

#### Samyang Engineering Plastics (Shanghai)

Engineering plastics

#### Samyang EP Hungary

Engineering plastics

#### Samyang EP Vietnam

Engineering plastics

#### CREA-CHEM

LFT (Long Fiber Reinforced Thermoplastic)

#### KCI

Polymers / Surfactants / Rheology modifier

### Biopharmaceutical Businesses

Samyang Group's biopharmaceutical business leader, Samyang Biopharmaceuticals Corporation is in the process of actively tapping into the global market with a great emphasis on research and development (R&D) activities, focusing on drug delivery system (DDS) technology as well as biodegradable medical devices.

#### Samyang Biopharmaceuticals Corporation

Medical devices  
Anti-cancer drugs  
Anti-cancer drug patches  
API (Active Pharmaceutical Ingredients)

#### Samyang Biopharm USA

Medichem

### Packaging Businesses

Following Samyang Group's corporate spin-off of its packaging business in 2014 with Samyang Packaging, the PET packaging business officially began to hit its stride. Samyang Packaging maintains an unrivaled, number one position with the industry's largest production capacity, the highest level of operational efficiency, and cutting-edge technology. Moreover, our Aseptic filling system, the first technology of its kind in Korea, allows for provision of cleaner and more hygienic PET beverages.

#### Samyang Packaging

PET bottles  
PET preform  
Aseptic filling system  
PET recycling

#### Samyang Corporation

Cosmetics

#### Samyang Data Systems

IT services

### Food Businesses

Our food businesses have been developing specialty food ingredients and distribution, as well as consumer goods utilizing the merging of food brand, Q.one, and the food service distribution specialist, ServeQ, grounded in basic food ingredients, such as sugar, flour, and oils. Moreover, Samyang's acquired expertise throughout the years have served as a driving force to help discover high value-added food ingredients and optimize food service distribution networks.

#### Samyang Corporation

Food ingredients (sugar, starch, starch sugar, flour milling, premix, oils/fats)  
Food service distribution  
Hangover relief products  
Q.one homemade products

#### Samyang F&B

Salad & grill restaurant  
Salad & brunch cafe

### Other Businesses

Samyang Group founded the Samyang Data Systems, an IT specialist company, providing high-quality IT services to our subsidiaries key accounts. We are also focusing our energy towards continuous development of customer lifestyles by operating the ingredient sciences specialist and cosmetics brand, ABOUT ME, grounded in R&D technology acquired in the food and medicine business sectors.

## History of Samyang

**10. 1924**  
Foundation /  
Established Samsu Company and  
Jangseong Farm

1924

1930s

**04. 1931**  
Renamed as Samyang Corporation

**06. 1939**  
Established Yang Young Association (Korea's first private scholarship foundation, later renamed Yang Young Foundation in 2003) & Namman Spinning in Manchuria (Korea's first overseas production corporation)

**12. 1955**  
Launched food business  
(Completed Ulsan sugar plant)

**01. 1956**  
Produced the first trial product of Samyang Sugar

**10. 1968**  
Established Sudang Scholarship Association  
(renamed Sudang Foundation in 2003)

**12. 1969**  
Launched synthetic fiber business  
(Completed Jeonju polyester plant)

**04. 1976**  
Completed Yeonji-dong office  
in Jongno-gu, Seoul

**12. 1976**  
Launched ion-exchange resin business

**08. 1977**  
Launched machinery/environment  
business

**04. 1979**  
Founded Samyang R&D Center

1970s

**08. 1993**  
Opened Samyang Group  
R&D Center

**04. 1995**  
Established Samyang Data  
Systems

**12. 1996**  
Launched biopharmaceutical  
business (Completed the  
construction of Daedeok  
pharmaceutical plant)

1990s

1980s

**12. 1984**  
Launched starch sugar business  
(Acquired Sunil Glucose)

**01. 1988**  
Launched PET bottle business  
(Completed Daejeon plant for  
PET production) / Established  
Samnam Petrochemical

**04. 1988**  
Launched flour milling business  
(Acquired Shinhan Flour Mills)

**03. 1989**  
Established Samyang Kasei

**11. 2000**  
Established integrated  
synthetic fiber corporation, Huvis

**01. 2002**  
Launched food family brand, Q.one

**05. 2002**  
Established Samyang Research (USA)

**05. 2004**  
Established Samyang Engineering Plastics  
(Shanghai)

**08. 2004**  
Launched processed oils/fats business  
(Took over processed oils/fats business of  
Korea Heinz)

2000s

2005~2009

**11. 2005**  
Launched electronic materials business

**06. 2006**  
Acquired Seven Springs  
(renamed Samyang F&B in 2014)

**10. 2009**  
Established Samyang Innochem

**02. 2010**  
Established Samyang EP Hungary

**11. 2011**  
Converted to holding company system resulting  
in the launching of Samyang Holdings,  
Samyang Corporation,  
Samyang Biopharmaceuticals Corporation

**11. 2012**  
Launched comprehensive health & beauty brand,  
ABOUT ME

**07. 2013**  
Launched food service distribution brand, ServeQ

**01. 2014**  
Established Samyang Fine Technology

**10. 2014**  
Celebrated the 90th anniversary  
of the company's foundation

**11. 2014**  
Established Samyang Packaging

2010s

2015~2017

**07. 2015**  
Merged Samyang Packaging  
and Asepsys Global

**01. 2016**  
Merged Samyang Corporation and  
Samyang Genex

**02. 2016**  
Declared the '2020 Vision' & new CI

**04. 2016**  
Completed Samyang Discovery Center

**07. 2016**  
Acquired the long fiber composite materials  
company, CREA CHEM

**10. 2017**  
Acquired the medical synthetic chemicals  
company, Medichem

**12. 2017**  
Acquired the beauty & personal care  
materials company, KCI

2018

**09. 2018**  
Established Samyang EP Vietnam

**10. 2018**  
Established Samyang Biopharm USA

Samyang CI



Samyang, delivering abundance and convenience to people’s lives, while relating with the world and communicating with customers.

The new corporate identity is based on a familiar visual language, including quotation marks of conversations to symbolize how Samyang’s products and services become a part of every moment of our daily lives.

The single quotation mark symbolizes Samyang’s materials technology that is applicable to many of our products, while the double quotation marks accentuate our open-mindedness, communicating with the world through customer-oriented management.

The colors used in the logos—blue, red, and green—are the three primary colors of light, representing life’s ingredients through which Samyang shares its values and convenience.

Samyang Values



Corporate Partnership

Companies can maximize their performances when they grow together and respect one another, just like society that goes on living together as a community.

While establishing a collaborative climate with partner companies to secure market competitiveness and sustainable growth engines, Samyang pursues joint development with partner companies through a culture of fair trade and mutual cooperation.

Operation of Mutual Growth Team

Samyang Group established the mutual growth team for a collaborative ecosystem with partner companies to secure market competitiveness and sustainable growth engines. These efforts ultimately resulted in the strengthening of communication with partner companies and the establishment of a transparent and fair trading culture to create a foundation for mutual growth.

Operation of Internal Deliberation Committee

We convene the internal deliberation committee once a month to autonomously scrutinize the fairness and legality of subcontracting transactions grounded in rigorous standards and to lead the way for promoting fair trade by establishing fair trade principles with partner companies.

Adopting Standard Subcontract Agreement

By adopting a standard subcontract agreement that has greatly enhanced fairness of transaction, we forestall elements of dispute and take the initiative in establishing a fair subcontracting procedure. We also make the effort to set up a trading climate of mutual respect by promoting the rights and interests of our subcontractors.

Support through Win-Win Funds

Samyang operates win-win funds to finance SMEs with the Industrial Bank of Korea (IBK) in order to provide solutions that raise capital for a business with minimal financial expenditure. This is a practical way to minimize the bottleneck effect in the management of partner companies.

Hosting of Samyang Mutual Cooperation Council

Based on the philosophy of mutual growth, Samyang builds healthy, reciprocal relationships and fortifies the foundation of mutual growth through active information exchange and joint technology development.

# Corporate Social Responsibility

Samyang’s strides to actualize a life of abundance and convenience expand beyond factories and offices to the corporate level, where we continue to carry out a plethora of Corporate Social Responsibility (CSR) activities ranging from scholarship projects, academic and cultural support, environment conservation, and community development throughout society.

Based on the vision of “Ingredients that add value to life,” Samyang Group engages in CSR activities with the aim of providing opportunities for value creation even within adverse environments. Samyang’s CSR activities essentially incorporate cultivation of human resources and environmental conservation in order to live together happily.

Samyang’s founder Sudang Kim Yeon-su believed that corporations should not remain in leagues of their own where they merely pursue their own interests, but rather should have a historical sense of calling for the country and society as a whole and take on the responsibility for national prosperity. It was this very belief which has laid the groundwork for the vision of ‘Ingredients that add value to life.’ Samyang will continue to create a future where companies and society can coexist with one another through our well-established corporate culture of CSR activities down the road.



## Yang Young Foundation

As Korea's first private scholarship foundation, the Yang Young Foundation was established by Sudang Kim Yeon-su in 1939. Based on his business philosophy of “Make an honest profit for a proper investment in our nation,” the footstep of our educational work was to fulfill our social responsibility as a modern-day entrepreneur during the period of national ordeal, and this philosophy has withstood the test of time, integrating into a vital part of Samyang's corporate culture. Yang Young Foundation fosters future assets by providing scholarships to 60 undergraduate students each year and supporting research funding for professors in the humanities and natural sciences. Both the Yang Young and Sudang foundations have provided scholarships and research funds to more than 20,000 students and 600 professors and research groups so far.

## Sudang Foundation

Founded in 1968, the Sudang Foundation is an extension of Samyang's scholarship program. Though we initially provided scholarship only to our employees' children, we eventually broadened the scope of recipients to students from all parts of Korea. Currently, we provide scholarships to over 20 undergraduates and 90 high school students each year. Moreover, we have established the Sudang Prize to honor Sudang Kim Yeon-su's wishes to return profits earned to society by contributing to the development of Korea's industries and human resources and encourage those who have made great achievements in national and social development. The Sudang Prize realizes our social responsibility and respect for humanity with its granting of 100 million KRW per year to persons demonstrating outstanding achievements in the areas of basic sciences, applied sciences, humanities, and social sciences.

Korea's first private scholarship foundations - Yang Young Foundation & Sudang Foundation



### Environmental conservation for future generations

#### Writing and Drawing Contest for the Love of Nature

We have been holding the Writing and Drawing Contest for the Love of Nature since 1996 in order to contribute to preserving a beautiful environment for posterity. Elementary school students and middle school students participating in the event express their love for nature through drawing and writing.

It is a large-scale event with approximately 10,000 participants including students and their parents and has become one of the representative corporate-run environmental festivals.

#### Future Science Camp with Samyang

Samyang runs the Future Science Camp for elementary students to help them experience the world of science that is easy to experience in daily life, yet difficult to understand and to arouse their interest in the science and environment that exist in their lives. At the science camp, the students enhance their integrated thinking skills and creativity through scientific experiments and crafts using various lab materials and tools, such as plastic bottles, flour, cooking oil, plastic clay, and VR goggles.



### Sponsorship for less popular sports

#### Samyang Corporation Woman Cycling Team

Samyang has been contributing to the development of the less popular sports industry by consistently supporting and running the Woman Cycling Team since its establishment in 1986 when cycling was not as known in Korea.

Samyang Corporation Woman Cycling Team has produced numerous athletes of the national team since its establishment and boosted the stagnant field of women's cycling in Korea by setting a new domestic record.



## WIN 2020 Vision



## We Imagine Next

**Samyang is taking strides in preparing for a life of abundance and convenience.**

Opportunity only presents itself to companies that know how to change and innovate.

Samyang Group focuses on organizational and cultural innovation, as well as the development of business portfolio in the four core business fields of chemicals, food, biopharmaceuticals, and packaging.

Building up existing core businesses while rapidly executing new businesses, Samyang has propelled to evolve into an R&D-based company that provides specialized services with global top-level corporate culture.

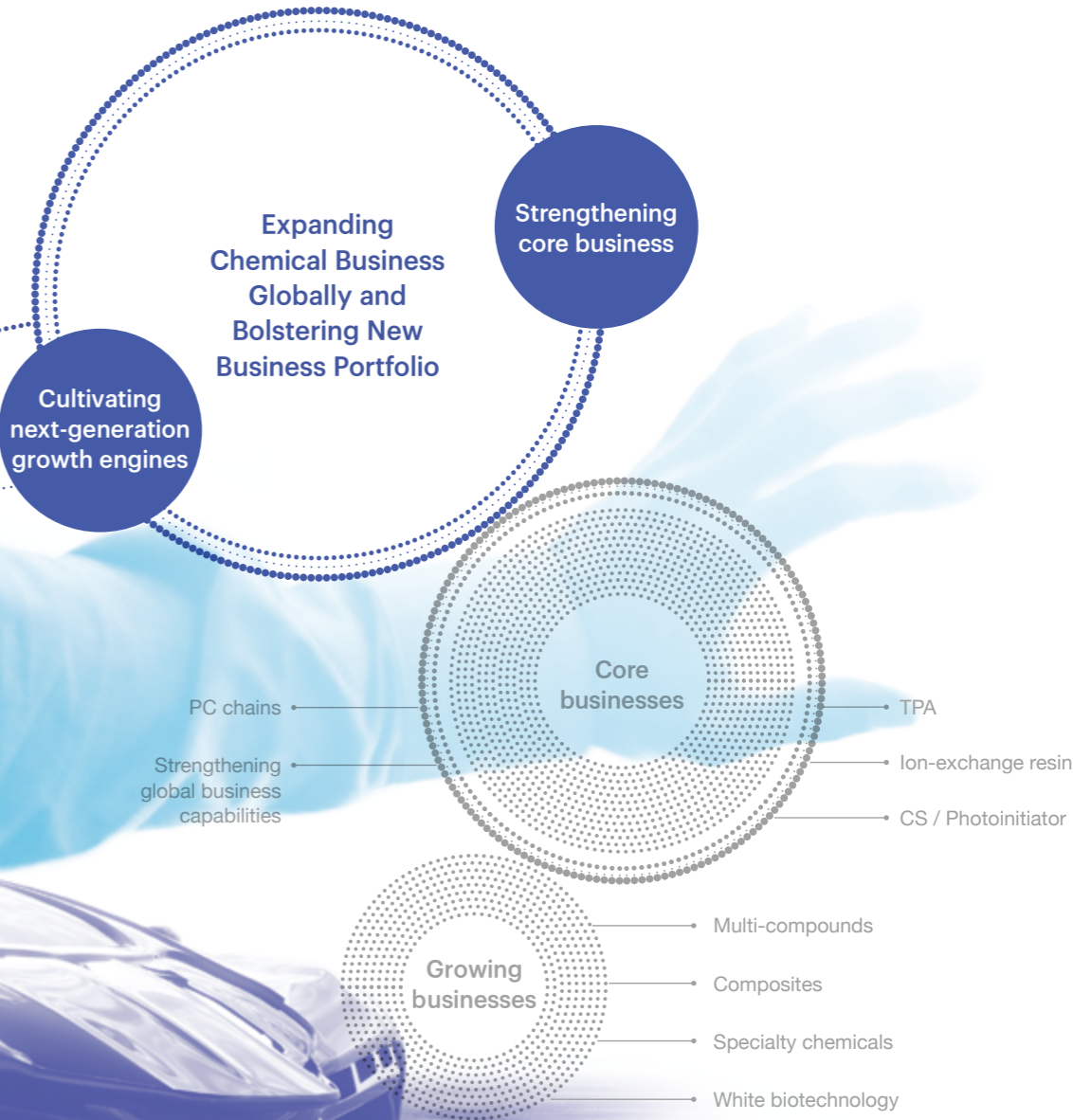
Samyang's future to create a lifestyle of abundance amid comfortable living begins with the WIN 2020 Vision.



# Global Solution Provider Creating Consumer Value

Samyang looks to expand the global market and fortify its comprehensive business portfolio.

Our chemical business enhances the core competencies of existing businesses, including PC chains and ion-exchange resin and also centers on uncovering new growing business opportunities that will lead the next-generation, ranging from multi-compounds and composites to white biotechnology. We are determined to develop into a global specialty chemicals company that will heighten customer value with innovative technology development and high-functionality products targeting the global market.



# No. 1 Innovator in Food & Services

Samyang will complete the transformation into a specialty ingredients business.

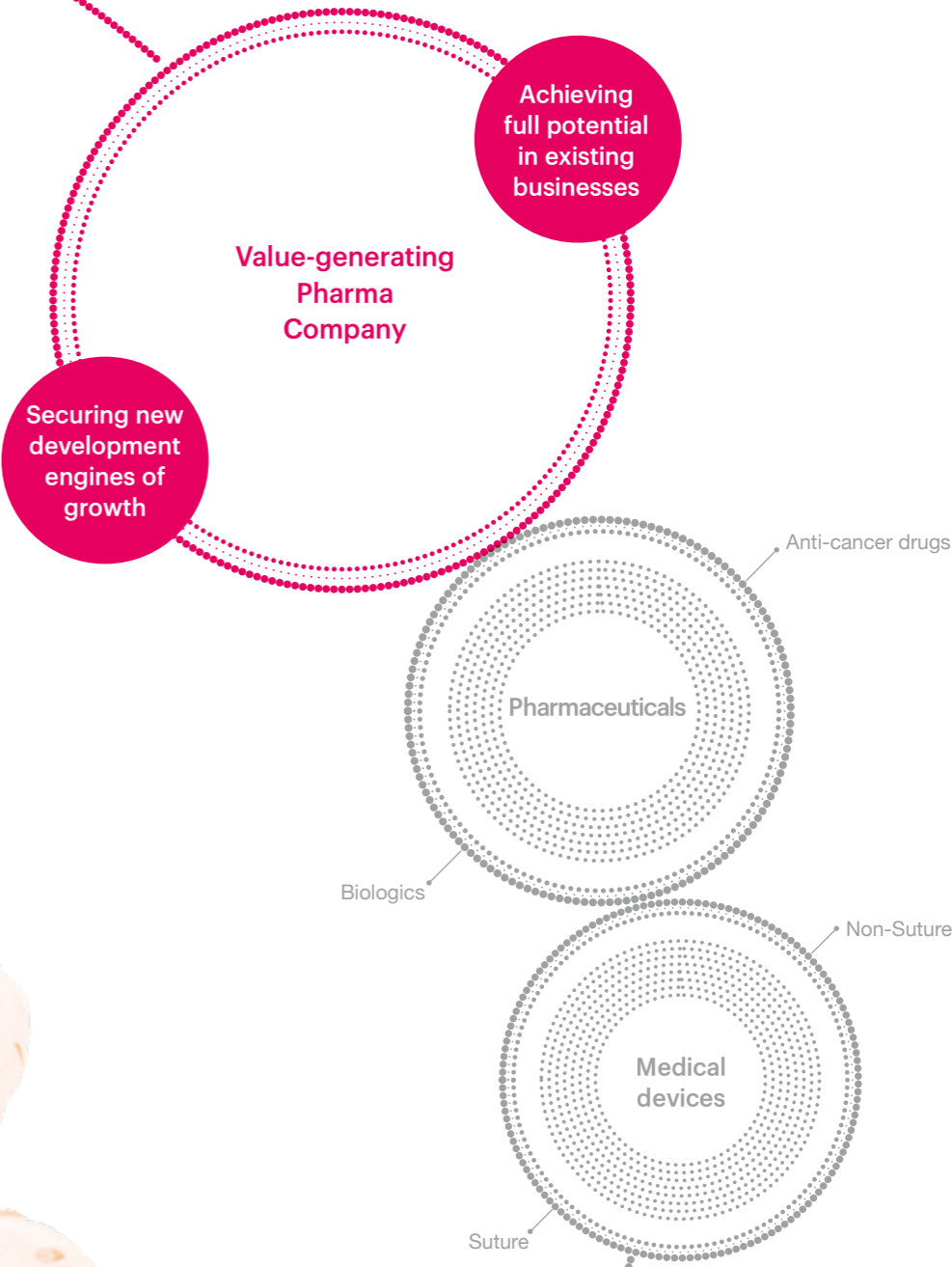
Our long-acquired expertise has catalyzed Samyang to accelerate the discovery of high value-added food ingredients, and the strengthening of food services distribution network. We will transform into a global specialty food company based on our highest level of production and R&D capability.



# Value-generating Pharma Company

Samyang strives to maximize the growth of existing businesses while securing new engines of growth.

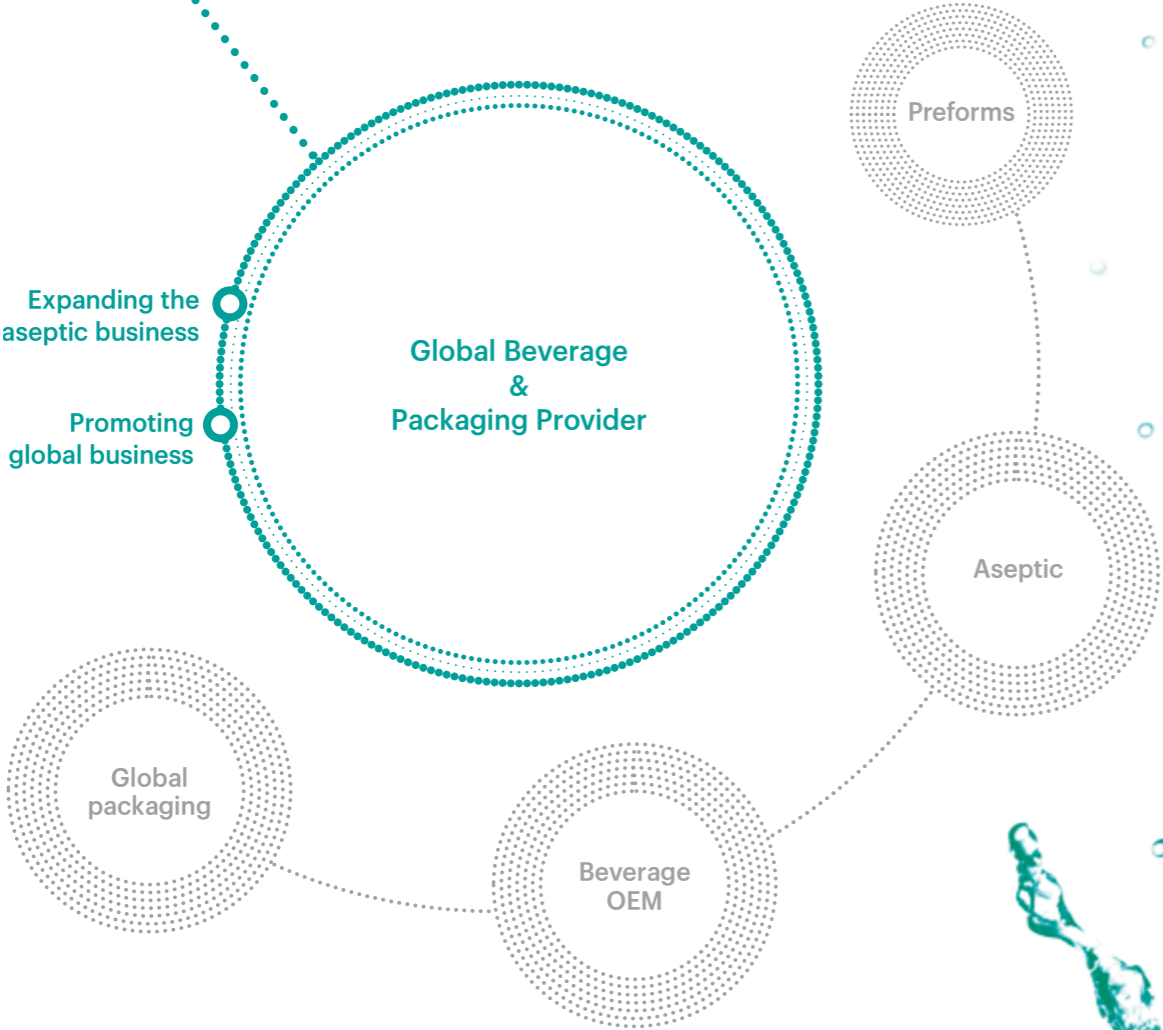
Samyang Biopharmaceuticals Corporation has gained its growth momentum through exploration of overseas markets based on its distinctive technology in both pharmaceutical products and medical devices. Samyang Biopharmaceuticals Corporation focuses its R&D capabilities on three primary areas, including improved drugs using DDS, biomedical products leading to future chemotherapy, and medical devices utilizing advanced biodegradable materials.



# Global Beverage & Packaging Provider

Samyang is devoted to expanding both the aseptic business and the scope of the global market.

As the leader of domestic PET packaging industry, Samyang Packaging leads the domestic market in all areas of PET packaging including the aseptic system, preforms, and beverage OEM. Samyang Packaging take great leaps forward in becoming a global packaging company by strengthening its position in the domestic market through continuous investment in facilities for aseptic facilities and overseas market development.



# Samyang's Profile

Samyang implements all management strategies and policies based on the vision of “Ingredients that add value to life.”



## Chemicals

- Samyang Corporation (Chemical businesses)
- Samnam Petrochemical
- Samyang Kasei
- Samyang Innochem
- Samyang Fine Technology
- Samyang Engineering Plastics (Shanghai)
- Samyang EP Hungary
- Samyang EP Vietnam
- CREA CHEM
- KCI



## Food

- Samyang Corporation (Food businesses)
- Samyang F&B



## Biopharmaceuticals

- Samyang Biopharmaceuticals Corporation
- Samyang Biopharm USA
- Medichem



## Packaging

- Samyang Packaging



## Others

- Samyang Corporation (Cosmetics)
- Samyang Data Systems



## Chemical Businesses

Good materials lead to good products, ultimately forming the basis of a good life. Samyang's chemical businesses work to support our invaluable daily lives through the development of better materials.

As Samyang's materials evolve step by step as the foundation of our everyday lives, our lives will be further enriched with abundance and convenience.

**Samyang Corporation**  
(Chemical businesses)  
[www.samyangcorp.com](http://www.samyangcorp.com)

**Samnam Petrochemical**  
[www.samnam.co.kr](http://www.samnam.co.kr)

**Samyang Kasei**  
[www.samyangkasei.com](http://www.samyangkasei.com)

**Samyang Innochem**  
[www.samyanginnochem.com](http://www.samyanginnochem.com)

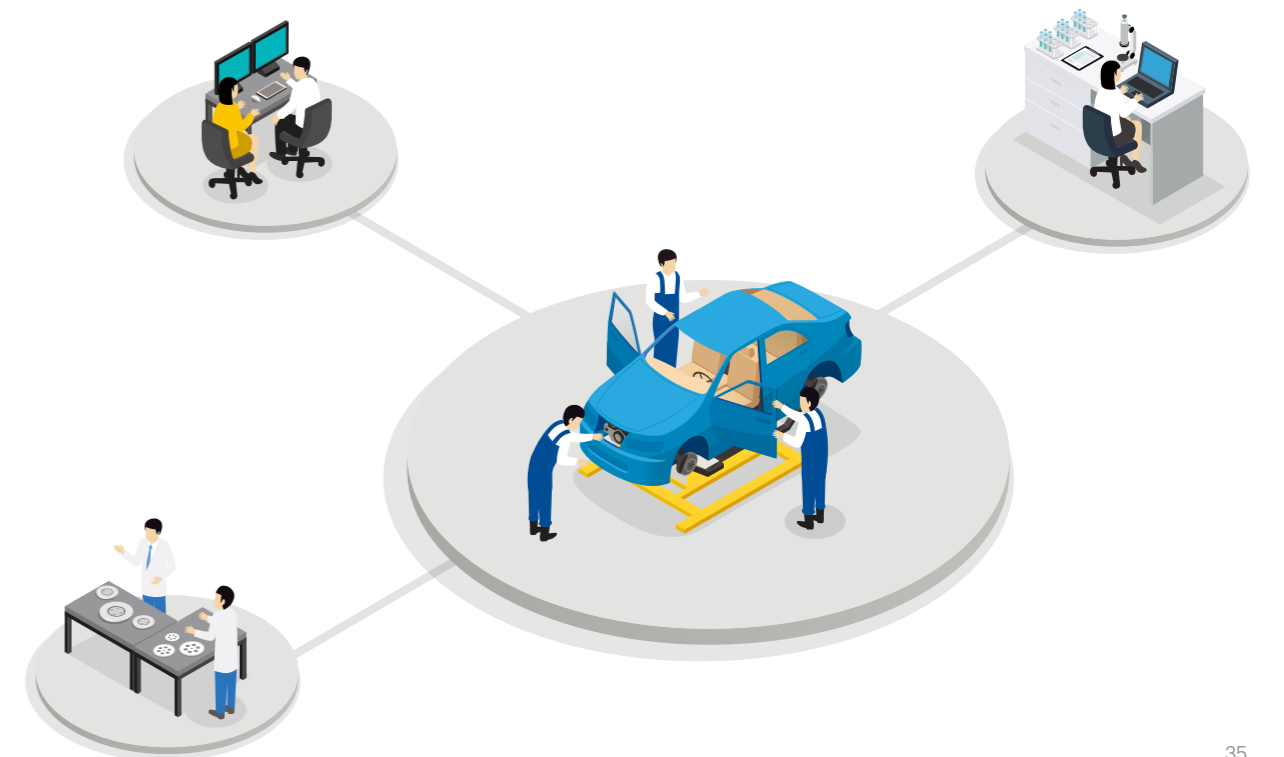
**Samyang Fine Technology**  
[www.samyangfinetechnology.com](http://www.samyangfinetechnology.com)

**Samyang Engineering Plastics**  
(Shanghai)  
[www.samyangepsh.com](http://www.samyangepsh.com)

**Samyang EP Hungary**  
[www.samyangcorp.com](http://www.samyangcorp.com)

**Samyang EP Vietnam**  
**CREA CHEM**

**KCI**  
[www.kcilttd.com](http://www.kcilttd.com)





### Samyang Kasei

As the first company to produce polycarbonate resins in Korea, Samyang Kasei has the production capacity of 120,000 tons per year and produces more than 140 kinds of product grades.



Brands & Products

Samyang centers on the promising high value-added chemical materials to secure a sustainable growth platform and a global manufacturing base. This propels Samyang products to create a greater customer value with superior quality and service.



Engineering Plastic

As a special plastic that is stronger than metal and more transparent than glass, engineering plastic is a highly-functional, cutting-edge material that is far superior to general commodity plastics in transparency, heat resistance, and mechanical characteristics.

TRIBIT®

As a registered trademark of Samyang's self-developed PBT (Polybutylene Terephthalate) resin, TRIBIT® is used for automobile materials including interior materials, bezels, and gears, electric and electronic parts due to its high heat resistance, chemical resistance, and electrical properties, as well as high crystallization speed and excellent moldability.



TRIEL®

As a registered trademark of Samyang's very own TPEE (Thermoplastic Polyether Ester Elastomer) resin, TRIEL® is primarily used in automobile materials, including interior or exterior materials, and CVJB, with excellent chemical resistance, heat resistance, and weatherability, as well as excellent low-temperature flexibility.

TRIEX®

As a registered trademark of Samyang Kasei's brand of polycarbonate resins, TRIEX® is superior in terms of transparency, heat resistance, and mechanical properties, making it conducive to manufacturing covers of electric and electronic products, which are mainly lenses/housing of automobile lamps, televisions, and mobile phones.



TRILITE®

TRILITE® is a brand of Samyang ion-exchange resin. It is a synthetic resin that retains ion-exchange capacity and is used for water treatment and the separation of certain materials.

BPA

Samyang Innochem's BPA (Bisphenol A) is a white crystalline substance produced by the condensation reaction of phenol and acetone and is used as a raw material of polycarbonate resins, epoxy resins, and plastic reinforcing agents.



TPA

Samnam Petrochemical's TPA (Terephthalic Acid) is a manufactured, pure white powder produced through paraxylene-based oxidation, purification, separation, and drying process and is primarily used as a raw material for engineering plastics, polyester fibers, resins, films, and other materials.



Electronic Materials

Electronic Materials are state-of-the-art materials consisting of column spacers for LCDs and touch panels, overcoats, photoinitiators, etc. Samyang uses its seasoned, technological expertise to broaden the scope of its business with next-generation display materials, including OLEDs and flexible displays.

Samyang Corporation (Chemical businesses)

We increase the value of our business and add to our lives with cutting-edge materials that set new standards within the industry, help protect the environment with eco-friendly properties, and meet global chemical standards that are welcomed in the world market.

Engineering Plastics

Samyang's engineering plastics are special plastics that are stronger than metal and more transparent than glass. The engineering plastics are superior to general commodity plastics in terms of transparency, heat resistance, and mechanical properties, and are widely used for materials such as electrical/electronic instruments, automobiles, machine components, and optics.

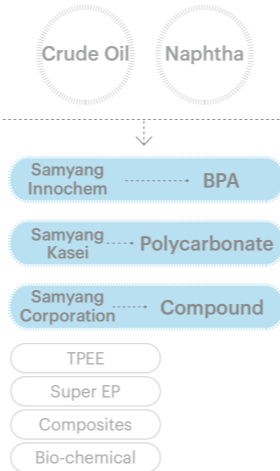
Samyang manufactures compound products, such as PC, Si-PC, PBT, and elastomer materials that include TPEE and TPV based on its proprietary polymer chemistry technology.

In 2016, we entered into the long fiber reinforced thermoplastic (LFT) business with the acquisition of CREA CHEM, a long-fiber composite materials company. We have broadened the scope of our business to

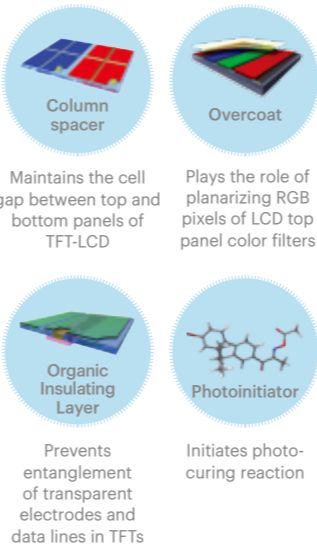
include carbon fiber composite and are also seeking expansion into the high-tech industry including that of aviation and lightweight materials for automobiles.

Samyang incorporated Samyang Engineering Plastics (Shanghai) in Shanghai, China in 2004, before moving on to establish Samyang Engineering Plastics (Hungary) in Jászberény, Hungary in 2011. Sales offices have been concurrently operated in San Diego, United States and Hanoi, Vietnam. We are also in active pursuit of gaining more globalized infrastructure by establishing new factories in Vietnam while also opening offices in Europe. Looking to the future, we will continue to advance our business structure and grow into a world-class and high-performance materials company.

Value Chain of Chemical Business



EMS Products



Electronic Materials

Samyang's EMS BU specializes in research and development of photoresist, a display material, as well as its production and sales. In addition, we supply column spacers and overcoats, the key materials used in TFT-LCDs and touch panels that are currently in high demand following the development of the IT industry, to not only domestic companies but also overseas brands located in Taiwan and China. We have recently jointly developed photoinitiators, the main raw materials of photoresist, with domestic specialized agencies to expand the business into the specialty chemicals sector.

Ion-Exchange Resin

Since commencing commercial production in 1975, we have maintained a firm presence as the only ion-exchange resin producer in Korea. Ion-exchange resin was initially used for water treatment but is now being diversified into various applications to be incorporated into food, pharmaceuticals, semiconductors, and catalysts.

The ion-exchange resin market has been continually expanding to include specialty refinement, semiconductors, LCD ultrapure water, etc.

White Biotechnology

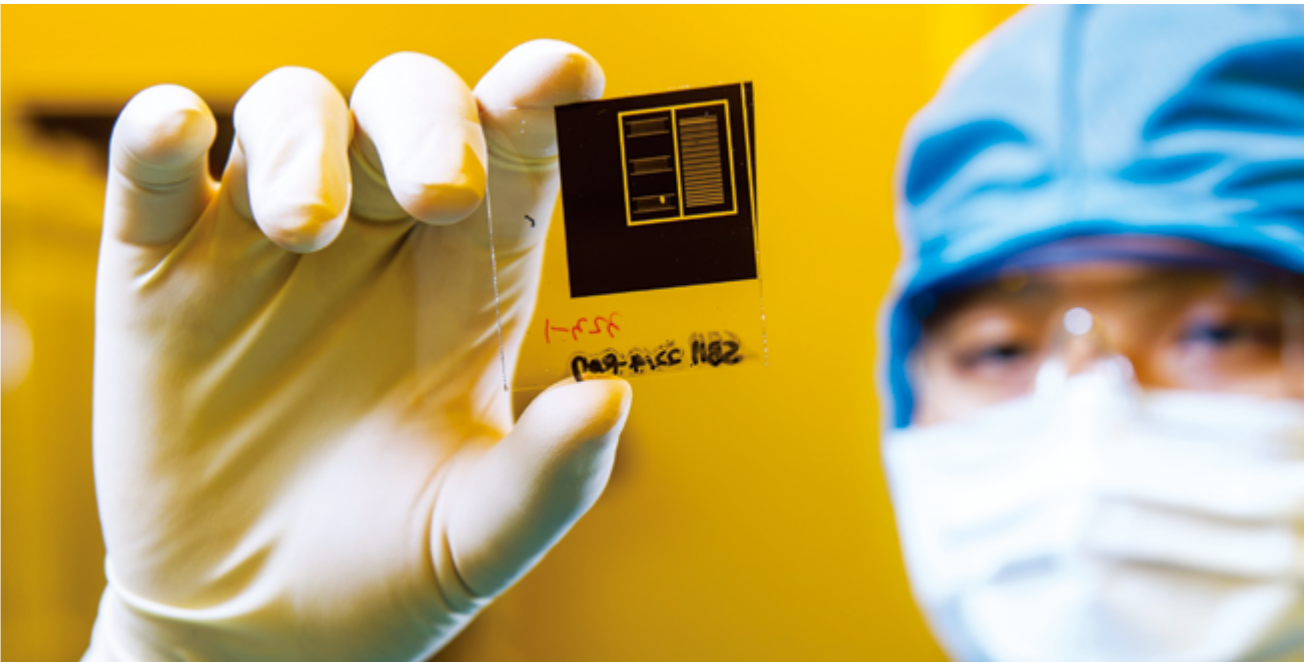
For the first time in Korea and the second time in the world, Samyang has succeeded in the commercial production of Isosorbide which can decrease greenhouse gas and replace petrochemical materials. Plastics made from vegetable-derived isosorbide are not only more environmentally friendly, but also have excellent transparency and surface hardness than conventional plastics. When used in durable plastics, it also has the propensity to improve UV transmittance, heat resistance, and chemical resistance. Due to these reasons, it has been well-received in various industrial sectors including mobile devices, exterior materials of electronic products, such as televisions, liquid crystal film of smartphones, dashboards of automobiles, food containers, and eco-friendly building materials.



Samyang EP Hungary



Samyang Engineering Plastics (Shanghai)



Samnam Petrochemical

We seek to open a new global era in alliance with our customers as a world-class TPA professional brand driven by strict quality management and ceaseless development of technology.

Established in 1988, Samnam Petrochemical produces TPA (Terephthalic Acid), a main raw material of polyester fibers from paraxylene (PX).

Samnam Petrochemical supplies QTA (Qualified Terephthalic Acid), which is superior in terms of both price competitiveness and quality among TPAs, to contribute to the enhancement of our clients' cost competitiveness and corporate value. Samnam Petrochemical QTA has been recognized for its remarkable competitiveness in quality as well, with its obtainment of certifications from domestic and overseas professional organizations including ISO, OHSAS, KOSHA, and PSM/SMS.

TPA has excellent heat resistance, abrasion resistance, and insulation properties, and is used as the main ingredient in polyester fiber, resin, film, paint, and engineering plastics. TPA is also being used increasingly in various fields, such as bottles, electrical and electronic products, industrial materials, building materials, and machine components, and stands out as a high value-added material maintaining a commanding presence in all competitive aspects.

While expanding its business to China, the largest TPA market, the EU, the Middle East, and other countries, Samnam Petrochemical has been strengthening its capabilities through a steady stream of exchange with production plants in Japan, Indonesia, and India. This essentially enables us to sustain our globally renowned reputation as TPA specialist company, comprised of a single plant that produces high quality QTA, while diversifying export markets to become a true global leader in the TPA industry.



Samnam Petrochemical, Yeosu Plant

Samyang Kasei

Our reliable groundwork in technology has helped us to gradually evolve beyond our national borders towards becoming a global producer of polycarbonate through a customized production system that meets various customer needs, amid bold investments in next-generation technology development.

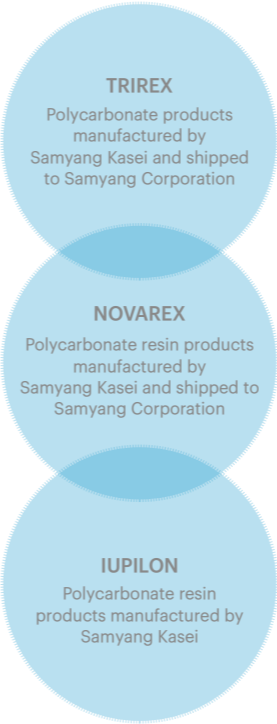
As the first polycarbonate resin producer in Korea, Samyang Kasei has a production capacity of 120,000 tons per year and produces more than 140 kinds of product grades in Jeonju. The customized multi-product production system maximizes the ability to reflect customer needs from the production stages and thorough quality management with 24-hour process monitoring, providing the platform for Samyang Kasei to reward customers with top-quality polycarbonate.

Polycarbonate, which is transparent, immune against heat, and displays superior mechanical properties, has excellent light transmittance and heat resistance. In addition, polycarbonate provides remarkable benefits when used as a protective cover for various lighting and features excellent impact resistance, which is equivalent to being ten times the strength as compared to normal PET

materials and 15 times the strength of nylon. Polycarbonate is widely used in electrical and electronic products, such as computers, LCD televisions, lighting fixtures, and automobile interior parts. The dimensional stability of polycarbonate is expanding upon its scope of utility to daily necessities, such as helmets, goggles, and stationery, as well as precision parts of cameras or watches, and windows.

In line with the global trend toward lightweight automobiles, Samyang Kasei focuses on ultra-low, MC Grade production for making automotive headlamps and semiconductor silicon wafers. In 2015, Samyang Kasei completed the mass production system of highly cold-resistant silicon polycarbonate developed by Samyang Group R&D Center and looks to also further its reach by initiating the production of highly heat-resistant polycarbonate.

Product Overview



Samyang Kasei, Jeonju Plant

## Samyang Innochem

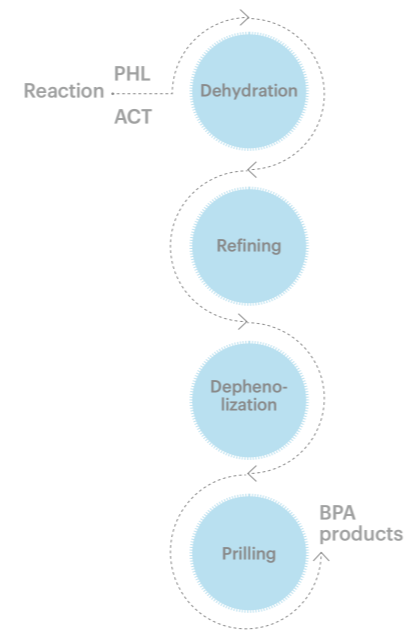
The annual output of 150,000 tons of BPA production helps to provide PC raw materials that are widely used from electronic products to medical supplies, while enhancing the value of related industries. This current volume of success ultimately provides the dynamic that we need in order to develop into a global BPA production company that can flourish and be welcomed in markets throughout China, U.S., and Europe.

Established in 2009, Samyang Innochem produces 150,000 tons of Bisphenol-A on an annual basis.

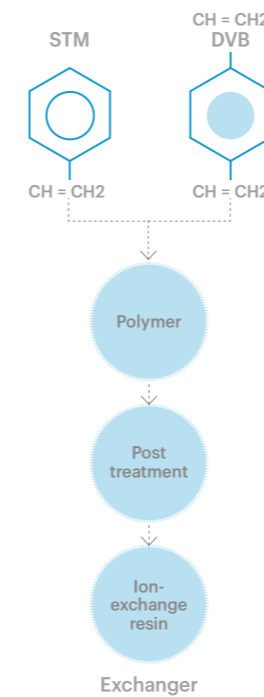
Polycarbonates (PC), a group utilizing BPA as its main raw material, is one of the five versatile engineering plastics. It is widely used in various fields, including electrical and electronic parts, automobiles, and medical supplies, while epoxy resins made from BPA are also used as inner coatings for corrosion prevention of metals, and adhesives for building materials, wood, metal, glass, ceramics, and rubber.

Samyang Innochem optimizes customer satisfaction with cost competitiveness, as well as quality competitiveness via thorough process control with 24-hour monitoring. We will develop products that are highly-recognized, not only in Korea, but also in overseas markets, such as China, U.S., and Europe, and build ourselves to become the world's premier BPA brand.

BPA Manufacturing Process



Ion-Exchange Resin Manufacturing Process



## Samyang Fine Technology

The addition of state-of-the-art manufacturing technology to our expertise acquired over the course of 40 years has propelled us to open a new era in the development of next-generation ion-exchange resins. We vow to become Asia's largest next-generation specialized plant for ion-exchange resins with a multi-product production system that meets the diverse needs of our customers.

Samyang Fine Technology is a corporate body established in 2014 with the aim of producing next-generation ion-exchange resins. The integration of our ion-exchange resin based technology accumulated over 40 years with our next-generation Uniform Particle Sized (UPS) Resin manufacturing technology has catalyzed Samyang Fine Technology to succeed in the localization of next-generation UPS ion-exchange resin, from being previously reliant on imported supplies only.

As a material with 0.5 to 0.6mm in diameter, UPS ion-exchange resin is superior to existing ion-exchange resins, enabling an increasing trend in utility and demand within the areas of ultrapure water production for semiconductors or LCD manufacturing, refinement of food or pharmaceuticals,

and catalysts for diverse chemical processes.

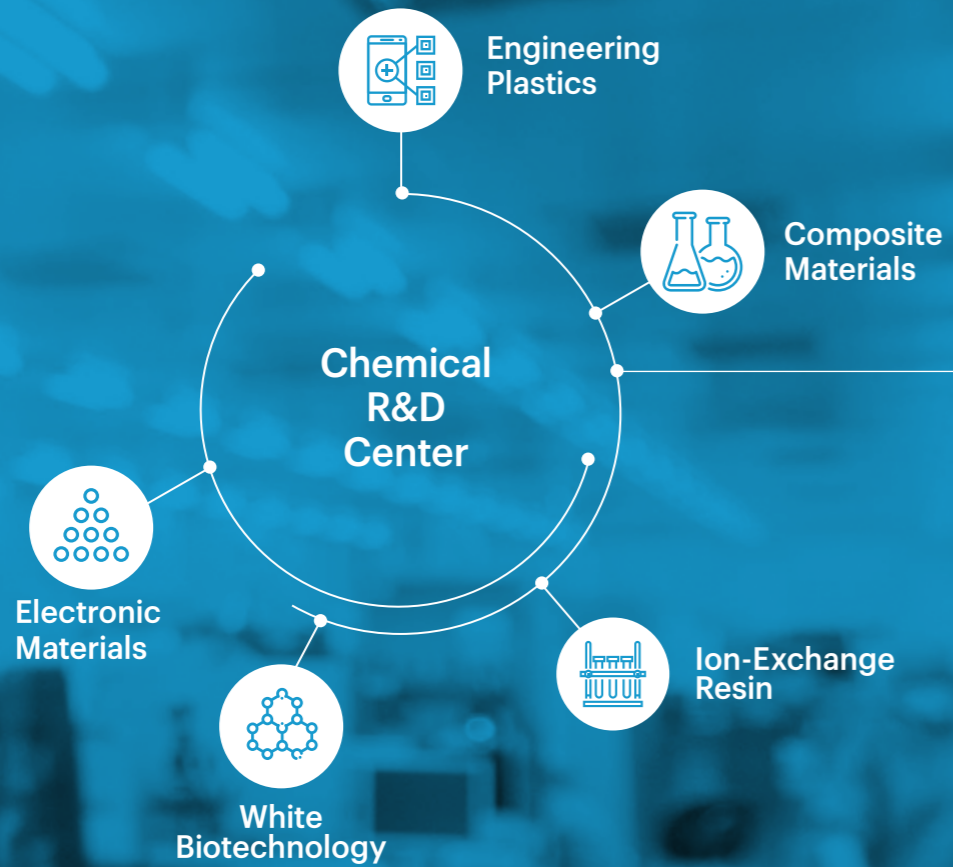
Samyang Fine Technology has continued to improve quality and cost competitiveness since the commencement of commercial operations in December 2015. We strive to satisfy customer needs through various product grades while conducting strict quality control which entails the 24-hour monitoring and environmental safety management system. We have our sights set on producing approximately 20,000kℓ of next-generation ion-exchange resins per year when a 100% capacity utilization rate is reached in the future, and we aim to firmly position ourselves as the largest next-generation ion-exchange resin specialized factory in Asia.



Samyang Innochem, Gunsan Plant



Samyang Fine Technology, Gunsan Plant



## Chemical R&D Center

By conducting research on the synthesis and processing of engineering plastics, such as PC, PBT, PET, TPEE, PMMA, and M-PET, we are developing sophisticated new materials. The Chemical R&D Center developed different types of advanced materials that include high-flow PC through synthetic technology for achieving lightweight and small-sized materials, a branched PC with optimized moldability in a molten state, Si-PC with enhanced shock absorbancy and nonflammability, and modified polyester for printer toners. We have also been developing eco-friendly materials through the development of botanically derived isosorbide and research on derivatives. Our research field has expanded to include long fiber reinforced thermoplastics, a carbon fiber material that incorporates thermoplastic pultrusion. Grounded in acquired polymer synthesis and technological advances in processing, the Chemical R&D Center has further magnified its R&D activity with automobile lightweight materials, metal substitute composites, eco-friendly materials, and highly-functional materials. We look to provide the driving force for the progressive growth of our chemical business while fostering increased abundance and convenience in the lives of our customers.

## Electronic Materials Research Center

Electronic Materials Research Center pioneers the leading technology in the electronic materials field and has stabilized its foothold at the forefront of TFT-LCD and touch panel materials development based on its precision synthesis capability. We have recently succeeded in developing, manufacturing, and commercializing photoinitiators, currently a market dominated by global chemical companies. In addition, we are acquiring differentiated technologies, covering the development of LCD column spacers that feature coating characteristics with the world's fastest speed. Electronic Materials Research Center is dedicated to the pursuit of ceaseless innovation and challenge to solidify its top global position in electronic materials and specialty chemicals.





## Food Businesses

Samyang's food businesses have steadily cultivated food ingredients which serve as a source of energy for the healthy and plentiful lives of consumers, and an invigorating concoction of tasty food and joyful living.

Samyang is evolving into the number one food and services innovator through the development of high value-added food ingredients that function as the origin of abundance and healthy living to begin a new chapter in food culture, while providing high-quality consumer goods and food services distribution.

Samyang Corporation (Food businesses)  
[www.samyangcorp.com](http://www.samyangcorp.com)

Samyang F&B  
[www.sevensprings.co.kr](http://www.sevensprings.co.kr)





Samyang - Life's Ingredients



Food Businesses



#### Q.one

Q.one is Samyang's Food business brand that delivers a youthful lifestyle prioritizing health and enjoyment in life. Q.one is a part of everyday life that provides the staples for our diet, including sugar, starch sugar, wheat flour, premix, and cooking oil.

## Brands & Products

As a part of our contributions to healthier, more pleasant customer lifestyle, Samyang is striving to enhance its competitiveness with food ingredients while developing high-quality products that promote health and wellness.



### Q.one

As Samyang's Food business brand with the meaning of "Quality No.1," Q.one provides a multitude of essential dietary ingredients and offers an enjoyable and healthy lifestyle that is beneficial for the body.



### Sugar & Functional Sugar

Q.one sugar is Korea's representative sugar brand created through the use of carefully-selected ingredients amid a strict manufacturing process.



### Wheat Flour

We produce high quality wheat flour with advanced automated equipment, superior flour milling technology, unrivaled quality, and strict hygiene management.



### Starch

Pioneering the domestic modified starch market has enabled the acquisition of manufacturing and application expertise for food starch and industrial starches incorporated into the production of paper and steel.



### Oils / Fats

We develop and supply high value-added functional oil/fat-based products that meet the needs of diverse customers and fulfill the value of a healthy life.



### Q.one EASY TOMORROW

Q.one EASY TOMORROW is a fast and reliable hangover relief product in pill type formulated with select ingredients including yeast extract.



### ServeQ

As Samyang Corporation's food services distribution brand, ServeQ provides products and services superior in quality that are delivered to our customers in a safe and expedient manner.



### ServeQ Food Ingredients

ServeQ purchases and acquires reliable quality ingredients for our customers while offering a wide range of products from food ingredients to processed foods, imported brands, frozen confectionary goods, and agricultural and marine products.



### Starch Sugar

Customers can also enjoy customized ingredients developed through continuous research and development on various starch sugar products, oligosaccharides, and sugar alcohol.



### Q.one Homemade

Q.one premix goods promote easy-to-prepare special meals for good times with your loved ones.

## Samyang Corporation (Food businesses)

Samyang Corporation's food sector is a long-standing business that serves as the foundation of Samyang Group. Centering on excellent food ingredients such as sugar, wheat flour, starch sugar, and processed oils/fats, we aim to become a total solutions provider of food-related services, such as the food services business, confectionery ingredients, and food services distribution to realize the value of “No.1 Food & Services Innovator.”



Q.one is Samyang's Food business brand, delivering a youthful lifestyle that pursues well-being and enjoyment. Q.one is always close by, found in the essentials of our everyday diet, including sugar, starch sugar, wheat flour, premixed goods, and cooking oil.

### Sugar

Samyang Corporation has led the sugar manufacturing business since 1956, dismantling the stereotype that sugar is all the same. Q.one sugar has been well received in various related industries, such as confectionery, baking, beverage, pharmaceuticals, as well as in the retail market, and has come to be recognized as a superior product in overseas markets including Hong Kong and China. Q.one sugar launched its premium brand of Q.one Trusweet in 2017, a brand that specializes in the production of xylose sugar, which reduces sugar absorption by inhibiting the activity of glucose degrading enzymes.

### Starch & Starch Sugar

Samyang Corporation produces sugar alcohol, water-soluble dietary fibers, oligosaccharides, and other starch sugar products serving as popular, low-calorie substitute sweeteners.

With unique enzyme technology, we also commercialize the next-generation Trusweet allulose and other sweeteners. Samyang Corporation, leader in the domestic modified starch market, has been steadily acquiring its manufacturing and application expertise for industrial-use starch for paper or steel and modified starch for food and beverages, such as confectionery, baking, beer, and meat processing.

### Wheat Flour

Starting the flour milling business in 1988, Samyang Corporation produces high quality Q.one wheat flour based on advanced automated equipment, excellent flour milling technology, refined quality, and strict hygiene management. We supply various types of flour ranging from baking, all-purpose, and confectionery, to flour for premium noodles, Chinese noodles, and raw noodles.

### Oils/Fats

Edible oils/fats, including cooking oil, margarine, and shortening product lines are also popular among customers. Diverse products ranging from high-end products to all-purpose products, including cooking oil, margarine, shortening, processed butter, and whipped cream are produced with the latest in manufacturing equipment from only the most carefully selected and freshest of ingredients.

### Premix

Samyang Corporation is a leading company in the domestic premix market, supplying customized premixes with optimum mix ratio. We devote ourselves to quality development based on our own R&D to promote continuous implementation of taste and quality desired by various processed food companies and restaurant franchise customers. Our product spectrum covers everything from commonly-used pancake mix and frying powder to batter mix, yeast-raised donut mix, and waffle mix.

### Q.one Homemade

As a pioneer of homemade food industry, Q.one homemade has created a DIY food culture that creates delicious and healthy food at home through a variety of premixed goods. Q.one homemade is used for baking cakes, cookies, chocolate, waffles, and egg bread. We have continuously launched home meal replacement products of smaller quantities, easy-to-use concept, etc. in line with the recent rising trend of single-person households.

### Q.one EASY TOMORROW

Q.one EASY TOMORROW is a pill-type hangover relief product released by Samyang Corporation in December 2013. It contains specially selected yeast extracts, oriental raisins, Chinese hawberry, and kudzu which are helpful for fast hangover relief. Its individual and portable packaging makes it easy to be consumed right before alcohol consumption. After its winning of 2018 Brand Consumer Satisfaction (in the area of hangover relief), Q.one EASY TOMORROW is now recognized as the leading hangover relief product. Q.one EASY TOMORROW released 'Q.one EASY TOMORROW STICK' in 2019. It is a slim stick type hangover relief product that can be taken without water.



Samyang Corporation, Ulsan Plant 1



Samyang Corporation (Food businesses)

Food Services Distribution (ServeQ)

Samyang Corporation is developing the food services distribution business under the ServeQ brand with a focus on bakery and restaurant owners that provide one-stop service, offering a variety of food ingredients, including sugar, flour, and oils/fats, as well as processed foods, agricultural products, and frozen bakery products.

While developing in-depth content related to the categories of confectionery, Western food, Chinese food, and cafés, requiring expertise through focalized strategies, we have teamed up with leading global companies across the globe to purchase and provide quality products to our customers. We offer reliable, customized solutions to alleviate various problems in regards to food ingredients, cooking, marketing, and management for self-employed restaurants and neighborhood bakeries to handle on their own. We pay close attention to maintenance of food safety by selecting and managing reliable manufacturers through rigorous audits, as well as by providing accurate product information such as with metal detectors and foreign object detection via x-ray, striving to accurately provide the origins of ingredients and whether they contain any allergenic substances, among others.

Samyang Corporation will continue to strive to deliver customized solutions at the most optimal prices.



ServeQ stands for “Serve” and “Quality,” and under the motto, ServeQ serves as Samyang's food distribution specialist brand, with our manifest commitment to providing excellent quality products and services safely and quickly to our customers.



Samyang F&B

Samyang F&B operates eco-friendly restaurants, ‘Seven Springs’ and casual Italian restaurant ‘Seven Springs Black.’ We are at the forefront of a healthy and delicious food culture, utilizing the natural taste of ingredients to create unique recipes.

Samyang F&B Brands



A buffet-style restaurant that offers in-season salad ingredients and a variety of healthy dishes



A buffet-style, gourmet restaurant with Seven Springs' fresh salad bar, with the added Sushi & Grill menu

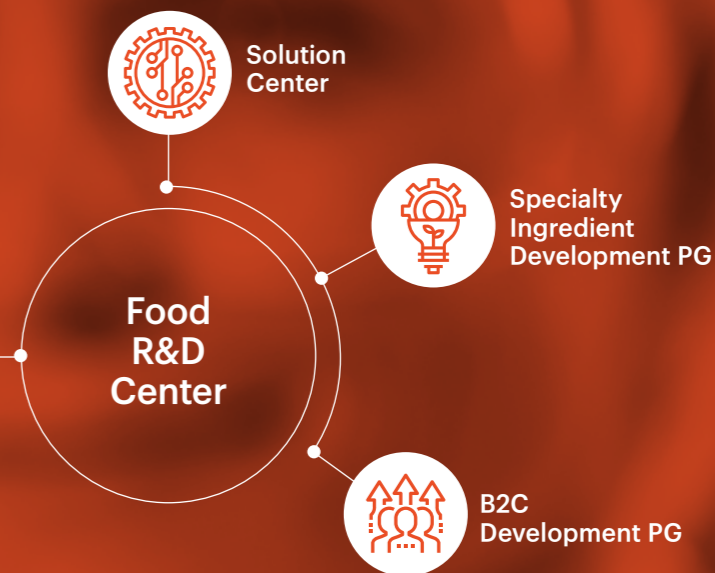
Samyang F&B is a company that conducts research into healthy and delicious foods with its representative brand, Seven Springs, which implements the brand philosophy of offering healthy food and pleasant services in a comfortable environment while paying the utmost attention to bringing out the characteristics of seasonal ingredients while highlighting the eco-friendly theme of “urban picnic.” In addition, we serve tasty and wholesome dishes by steadily developing our unique low-sodium and low-fat homemade dishes with baked and steamed recipes.

We also strive to make our customers feel comfortable and relaxed by creating green spaces, through gardening and greenhouses, etc. that utilize eco-friendly materials.

Samyang F&B aims to put its best foot forward in the development of premium menus using quality ingredients. As a special dining brand, we will also realize the value of offering excellent taste, healthy ingredients, and novel enjoyments.



Seven Springs Gwanghwamun Branch



**Food R&D Center**

Based on product development customized to consumer needs, in combination with food application and processing technologies, Samyang Corporation's Food R&D Center pursues proposal-based research, a step above customized research, in which products are tailor-made to fit customer demands.

Our Food R&D Center focuses on diverse materials & applied research based on basic ingredients such as sugar, powder, and oil, and conduct applied research and development of such ingredients. This serves as the groundwork for customized product development and applied research on functional oils/fats, processed oils/fats, premixes, and sauces for corporate customers.

Samyang Corporation's Food R&D Center not only provides differentiated value to customers with high value-added solutions throughout the food industry, but also takes a step forward toward achieving the goal of becoming the No. 1 Food & Service Innovator through the initiation of research and development to secure company's future growth engines over the next century.



## Biopharmaceutical Businesses

With the biopharmaceutical industry anticipated to open up promising perspectives in the future, Samyang Group is leveraging its resources and capabilities into this future-oriented business. In alignment with this vision, Samyang Biopharmaceuticals Corporation is constantly developing pharmaceutical products and medical devices to improve the health and quality of life of consumers. Samyang is determined to open a new paradigm of healthcare delivery as a global leader in the high-value healthcare business.

Samyang Biopharmaceuticals Corporation  
[www.samyangbiopharm.com](http://www.samyangbiopharm.com)

Samyang Biopharm USA

Medichem





## Samyang Biopharmaceuticals Corporation

We develop safe and effective pharmaceutical products based on the drug delivery system technology and various types of medical devices made from biodegradable polymers.



## Brands & Products

Samyang's ceaseless efforts to enhance health and quality of life by developing high-value pharmaceutical products and medical devices through R&D make Samyang a company that is trusted by consumers.



### Genexol® PM Injection

Genexol® PM Injection is a new generation of Paclitaxel made using Samyang Biopharmaceuticals Corporation's unique polymeric micelle, which provides maximum therapeutic benefits by delivering higher doses to the target as compared to conventional drugs.



### Nanoxel® M Injection

Nanoxel® M Injection is an oncology injection made using Samyang Biopharmaceuticals Corporation's unique polymeric micelle technology that minimizes hypersensitivity, which is a major side effect of Docetaxel.

### Proflex® Mesh

Proflex® Mesh is a partially absorbable surgical mesh that is knitted using Segmented Pie monofilament, which is comprised of biodegradable and non-degradable polymers.



### Rheumastop® Plaster

Rheumastop® Plaster, the first diclofenac patch formulation developed in Korea, is a plaster product that treats arthritis and muscle pain.



### Nicostop® Patch

Nicostop® Patch proudly developed by Samyang Biopharmaceuticals Corporation is a nicotine patch introduced for the first time in Korea. Simply attaching it on the skin will help with smoking cessation by slowly reducing the intake of nicotine over time while mitigating the withdrawal symptoms during usage.



### Angiderm® Patch

Angiderm® Patch is a matrix-type patch containing nitroglycerin, the most common substance used for treatment of angina. Its unique matrix formulation, thinner and more transparent compared to conventional patches, offers a more comfortable fit and a 'one patch-a-day' solution to cure and prevent angina in the simplest way possible.



### Trisorb®

Trisorb® is a synthetic absorbable suture made of polyglycolic acid (PGA), a biodegradable material that gets absorbed into the body over time following surgery.



### SurgiGuard® Gauze

SurgiGuard® Gauze is an absorbable hemostatic agent that is designed to assist with the control of capillary, venous, and small arterial hemorrhage during surgery.

Samyang Biopharmaceuticals Corporation

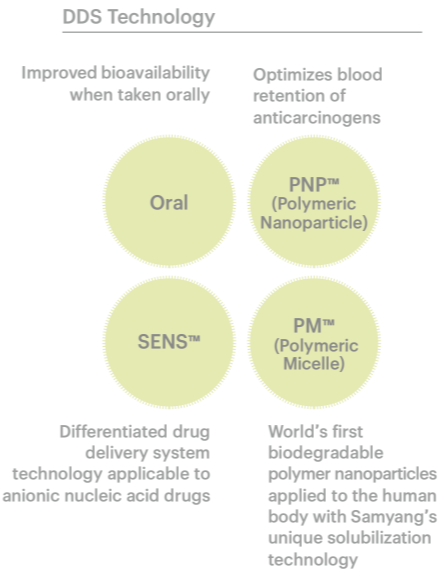
Samyang Biopharmaceuticals Corporation has gained its growth momentum through overseas market exploration propelled by Samyang’s advanced technologies in both pharmaceuticals and medical devices. Our R&D capabilities primarily focused on three areas: improved drugs using the drug delivery system technology, new biologics that will lead the future of cancer therapy, and medical devices utilizing advanced biodegradable materials.

Samyang Biopharmaceuticals Corporation is a subsidiary specializing in biopharmaceutical business of Samyang Group. Samyang Group commenced its biopharmaceutical business upon the opening of a pharmaceutical R&D center in 1993, followed by the establishment of Daedeok Medical Device plant in 1996 and the pharmaceutical plant in 1997, a period of optimizing its production capacity for the pharmaceutical business. As Samyang Group converted into a holding company and its pharmaceutical business got split off as a separate entity, Samyang Biopharmaceuticals Corporation was finally established in November 2011.

The biopharmaceutical business is the core business of Samyang Group along with the chemicals, food, and packaging sectors. As defined by its clear vision statement, “Value-generating Pharma Company,” Samyang Biopharmaceuticals Corporation invests over 20% of its revenue in R&D every year.

Also, Samyang Biopharmaceuticals Corporation continues to develop trend-setting medical products, broadening its portfolio that includes anti-cancer drugs and drug delivery system technology. Its medical device business is expanding into the global market, enhancing the competitiveness of suture business and developing new business opportunities with absorbable materials at the same time.

Samyang Biopharmaceuticals Corporation has established an overseas subsidiary at Kendall Square in Boston, U.S. to effectively penetrate into the global market. At the heart of the biopharmaceutical industry, Samyang Biopharmaceuticals Corporation in the U.S. will enjoy abundant opportunities not only to network with global corporations and research institutes but also to discover valuable technologies and materials for biologics to license in or out in the early stages of clinical development, thus accelerating the process of drug development.



Pharmaceuticals

**Anti-cancer drugs**  
Samyang Biopharmaceuticals Corporation, using the plant cell culture technology, has succeeded for the first time in the world in the mass production of Paclitaxel, a base material for anti-cancer drugs. Samyang Biopharmaceuticals Corporation’s active pharmaceutical ingredients like Paclitaxel and finished pharmaceutical products are used to treat ovarian cancer, lung cancer, and breast cancer in various countries and continents such as Europe, Japan, Asia, and South America, as well as Korea. Its anti-cancer products, such as Genexol® PM Injection and Nanoxel® M Injection, are characterized by the minimized hypersensitivity reactions found in the original products; a result of Samyang Biopharmaceuticals Corporation’s own drug delivery system technology based on chemically synthesized nano-polymers.

Recently, we have made significant progress with our R&D efforts, aimed towards developing products with improved convenience of prescription and medication. Key products include: Pemed® S Injection, which is converted from the freeze-dried type into a liquid form, making it more

convenient to manufacture and more cost-effective. Protezomib® Injection 2.5mg, which successfully reduces drug disposal in consideration of the average body surface area of Koreans. Lenalid® Tab, which is characterized by the dramatically reduced size compared to the original product while increasing the convenience of medication by changing the form of the drug from the capsule type into tablets.

**Patches**  
The patch solution breaks the stereotype that drug intake is required to treat illness. Patches are designed to control the rate of the drug release and its influx through the skin, liberating patients from possible adverse effects particularly on the stomach and liver.

Samyang Biopharmaceuticals Corporation has been pioneering a new pharmaceuticals market and contributing to public health by developing a variety of patches ranging from Nicostop® to help with smoking cessation, Angiderm® for treatment of angina, Tulobuterol® for asthma treatment, Demencure® for dementia treatment, and lastly Fentaderm®, a narcotic analgesics.



Samyang Biopharmaceuticals Corporation’s medical substances made from Paclitaxel



Samyang Biopharmaceuticals Corporation, Pharmaceuticals Plant

Medical Devices

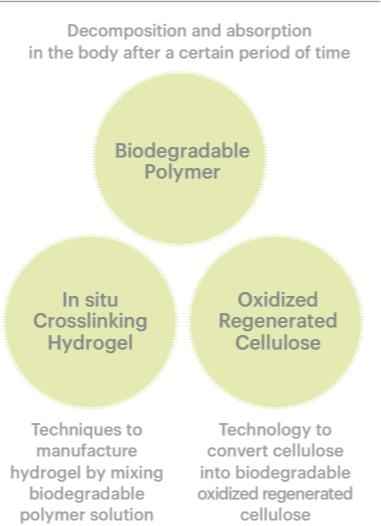
In 1996, Samyang Biopharmaceuticals Corporation launched Trisorb®, an absorbable PGA suture gradually dissolving in the body, for the first time in Korea and the third in the world. Trisorb® is currently exported to about 45 countries worldwide. Samyang's suture products comply with ISO 13485 requirements; Surgisorb®, a finished surgical suture, was approved by U.S. FDA in 1999 and obtained CE Mark in 2002. In addition, Samyang Biopharmaceuticals Corporation has a robust product line of absorbable sutures, having successfully commercialized monofilament sutures such as Monosorb®, Monofast®, and multifilament sutures such as Neosorb®, and Neosorb® Rapid, as well as anti-bacterial sutures in 2012.

Owing to the development of proprietary oxidized regenerated cellulose technology we were able to commercialize SurgiGuard®, an absorbable hemostatic agent, and InterGuard®, an absorbable anti-adhesion agent.

In 2017, we further expanded our portfolio of hemostats by launching the non-absorbable hemostatic dressing Q-Guard®, and are well received in domestic and international markets. Partially absorbable surgical mesh Proflex® manufactured by patented technology of Samyang Biopharmaceuticals Corporation maximizes the cure effects by reducing postoperative foreign body sensation. Also, we are planning to launch Monofix™, a knotless wound closure device used in minimally invasive surgery.

With high-quality suture manufacturing and biodegradable polymer technology, Samyang Biopharmaceuticals Corporation's medical devices-unit intends to further expand its portfolio of wound management products, devices for minimally invasive surgery and medical aesthetic line.

Medical Devices Technology



Samyang Biopharmaceuticals Corporation, MD Plant

Samyang Biopharmaceuticals Corporation  
Biopharmaceuticals R&D Center

As a result of vigorously investing approximately 20% of its annual revenue in the R&D, Samyang Biopharmaceuticals Corporation is now seeing success today as Samyang continues to put out innovative and valuable products into the world.

We have commercialized oncology products using chemically-synthesized, nano-polymeric DDS technology, which is unique and few around the globe. We also have developed safe and efficacious patch-type pharmaceutical products, using transdermal drug delivery system (TDDS) technology that helps deliver drugs to the target through the skin-such as pain relief patches to relieve pain in cancer patients, and patches for anti-smoking and analgesic.

As to our Active Pharmaceutical Ingredients (API) business, we succeeded in the mass production of paclitaxel-based pharmaceuticals for anticarcinogens through plant cell culture for the first time in the world. We are also focusing on developing innovative DDS technology that effectively delivers nucleic acids (siRNA, mRNA, and pDNA) into specific cells. Such innovative drug delivery technologies will lay the groundwork for Samyang to flourish in the areas of anti-cancer immunotherapeutics, antibodies (Monoclonal Antibody), an antibody-drug conjugate (ADC), and recombinant protein.

For the medical device business unit, we are committed to producing high-quality medical devices ranging from biodegradable material-based wound care products and laparoscopic wound closure products to 3D printing materials and aesthetic products by applying our accumulated knowledge and technology with biodegradable materials and production capabilities.





## Packaging Businesses

Samyang Packaging, producing PET bottles for the first time in Korea while introducing an aseptic filling system, has its sights set on becoming the number one packaging company in the world.

We will reflect that of packaging brand that rewards customers' lives with convenience, anywhere and anytime.

Samyang Packaging  
[www.samyangpackaging.co.kr](http://www.samyangpackaging.co.kr)





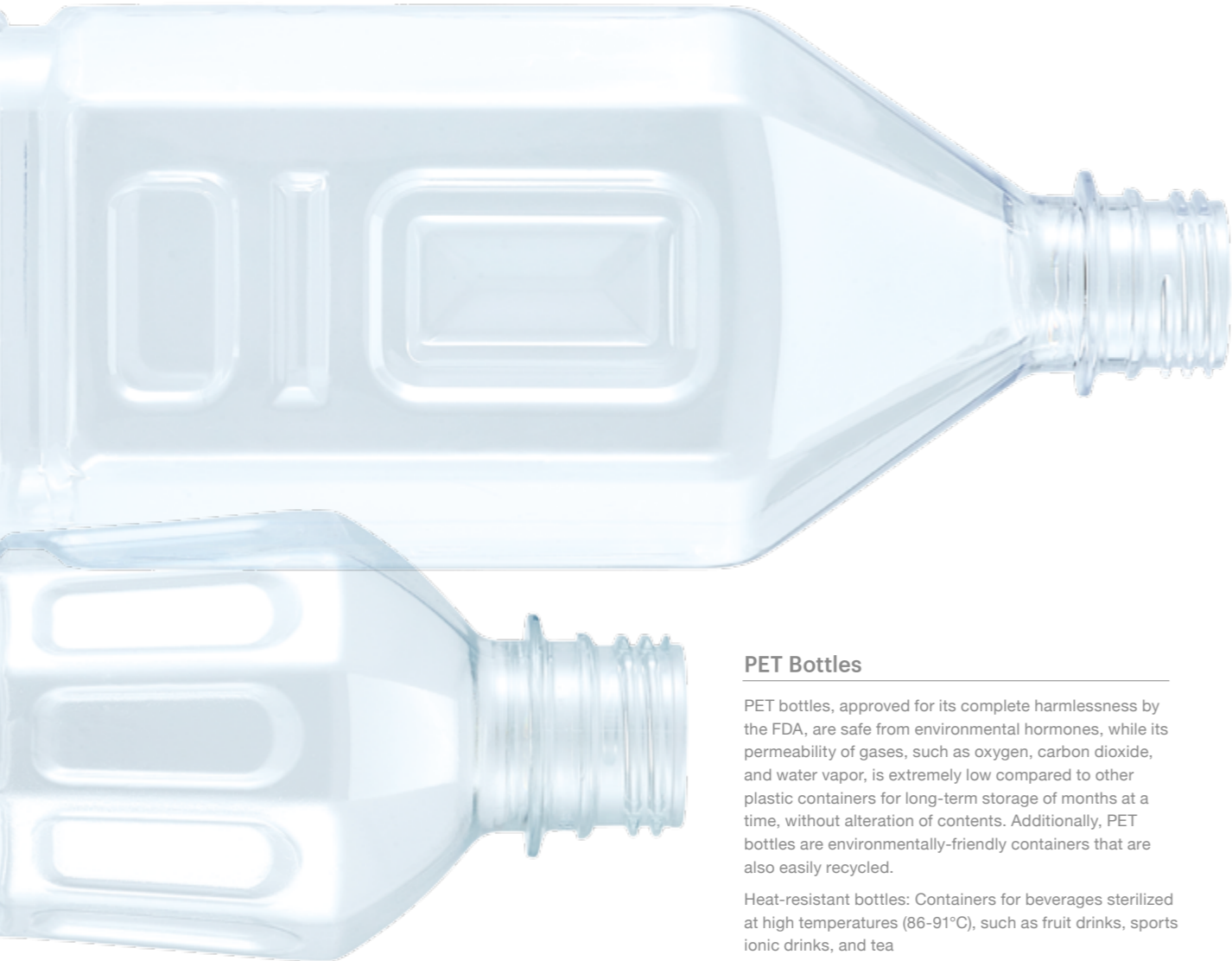
**Samyang Packaging's  
PET Bottles Manufacturing Process**

We provide various packaging solutions, such as new technology development, new materials development, and design innovation, focused on supplying customers with products that serve their needs.



Brands & Products

Samyang’s packaging businesses are constantly striving to provide the best technology and the highest quality for customers so that they may benefit from a more convenient and abundant lifestyle.



PET Bottles

PET bottles, approved for its complete harmlessness by the FDA, are safe from environmental hormones, while its permeability of gases, such as oxygen, carbon dioxide, and water vapor, is extremely low compared to other plastic containers for long-term storage of months at a time, without alteration of contents. Additionally, PET bottles are environmentally-friendly containers that are also easily recycled.

Heat-resistant bottles: Containers for beverages sterilized at high temperatures (86-91°C), such as fruit drinks, sports ionic drinks, and tea

Pressure-resistant bottles: Containers for carbonated soft drinks

Heat & pressure-resistant bottles: Containers for low-carbonated beverages that go through post-pasteurization (65°C) treatment

Normal pressure bottles: Containers including contents under normal temperature and pressure, such as bottled water, food, and alcohol

PET Preform

As a product that is semi-finished after injection molding for the manufacturing of final PET bottles, PET preform products may be supplied according to various standards, regarding neck type and weight, and also can be supplied with multi-layer preforms displaying properties of a high oxygen barrier. We have been continuously growing into a packaging solutions company that meets customer demands for PET bottles.



Samyang Asepsys - Cartocan

As a can-shaped container made of eco-friendly paper, the design itself is incorporated with the Aseptic filling system, enabling increased convenience and hygiene, while also being comprised of materials that are applicable to a multitude of designs.

Samyang Asepsys - PET

As Samyang Packaging's Aseptic filling system brand, providing consumers with cleaner and better-tasting PET beverages, we are the first in Korea to provide beverage packaging that delivers excellence in taste and flavor, with a low risk of deterioration thanks to the Aseptic filling system.



# Samyang Packaging

**Samyang Packaging, the standard for packaging in Korea, aims to go beyond national borders to become the global standard for packaging worldwide.**  
**This advancement into becoming the world's best packaging solutions company will take us beyond simply being the first ever PET bottle manufacturer, into the realm of evolving into the global number one packaging brands.**

Since initiating the production of PET bottles in 1979 for the first time in Korea, Samyang Packaging has been steadily developing itself into a leading domestic PET packaging market, including the production of both heat-resistant and pressure-resistant containers, as well as aseptic beverage production.

Samyang Packaging demerged from Samyang Corporation to enhance business expertise in the packaging sector and strengthen management efficiency. Samyang Packaging then went on to merge with Asepsys Global in July 2015, to launch as Korea's No.1 PET bottles company and Aseptic filling specialist brand.

We have placed priority on supplying products that meet customer needs and have been striving to provide various packaging solutions including new technology/materials development and design innovation, which enabled multi-layer PET bottle development, lightweight technology development, and the introduction of Aseptic filling system for the first time in Korea, among our other remarkable accomplishments.

Samyang Packaging is set on developing itself into a global packaging brand that leads the world packaging industry with unrivaled technology and customer-oriented packaging solutions.

History	
1979	Produced first PET bottles in Korea
1983	Developed pressure-resistant containers
1988	Developed heat-resistant containers
2002	Developed first high barrier bottles in Korea (multi-layer)
2007	Produced aseptic beverages
2014	Founded Samyang Packaging
2015	Completed the merge between Samyang Packaging & Asepsys Global (formerly Hyosung Packaging PU)
2017	Listed on securities market
2018	Produced cartocan beverages



Samyang Packaging, Gwanghyewon Plant

## Packaging R&D



## Samyang Packaging R&D

Samyang Packaging R&D conducts research on beverage and packaging solutions that can fully embrace customer dreams.

Based on the acquisition of beverage development expertise and acquired know-how in the beverage business, the aseptic sector offers a competitive edge in the ODM beverage manufacturing process, providing total services from product development to manufacturing of final products, and supplies top-quality products through varied customer collaborations. Through a series of trial testings, we are striving to offer the best in product quality to our clients and customers through securing top-notch premium goods and stable production.

The Bottle and PFM sector is committed to developing containers that are hygienic and safe, minimize nutrition loss, and reduce negative environmental impacts while adding the enjoyment of beverages. Amid efforts to improve raw materials and pursue the development of barrier materials through materials technology research, we have been expanding the utilization of food containers, multi-layer containers, high heat-resistant containers, and pharmaceutical containers through developmental achievements in processing technology.



## Other Businesses

Samyang creates customer value in various fields of chemicals, food, biopharmaceuticals, and packaging, and is engaged in a differentiated beauty business based on material sciences acquired through vibrant R&D activities of our core businesses. We continue to build new growth engines through provision of high-quality IT services to corporate environments of customers, including public and financial spheres, as well as the manufacturing industry.

Samyang Corporation (Cosmetics)  
www.aboutmeshop.com

Samyang Data Systems  
www.syds.com





#### ABOUT ME

ABOUT ME is a cosmetics brand that offers beautiful change and confidence in your skin through differentiated beauty ingredients uncovered in Samyang's distinguished material sciences.



#### Samyang Data Systems

Samyang Data Systems is an IT specialist, providing high-quality IT services and taking the lead in maximizing the business value of customers.



Samyang Corporation (Cosmetics)

As quality ingredients are to delicious food, carefully selected and trusted ingredients can also be the key to bringing about beautiful changes to the skin. Samyang’s 100-year ingredients technology has evolved into skin science-based cosmetics that further enhance the lives of customers.

Grounded in the brand philosophy that true beauty originates from healthy beauty that accentuates the “self,” Samyang Corporation’s cosmetics business features a variety of skin care products focusing on the total wellness and harmony of the body, as well as the beautiful changes of the skin.

Product ingredients on the basis of differentiated ingredients technology make ABOUT ME truly unique. The diverse proprietary processes are extensively applied to the extraction, stabilization, and mixing of ingredients based on Samyang Group’s exclusive technological competence and expertise that have been acquired through R&D activities within the food, chemicals, and biopharmaceutical businesses over the years.

Most notably, ABOUT ME’s dermatological care-specialized brand, MediAnswer, incorporates Samyang Biopharmaceuticals Corporation’s transdermal delivery system (TDS) technology to its cosmetics in order to promote skin absorption of active components. MediAnswer has been solidifying its position as Samyang’s specialized skin care brand by identifying the origin of skin concerns and suggesting continuous skin improvement.

Core Values of ABOUT ME



ABOUT ME

ABOUT ME is Samyang’s cosmetics brand, with the meaning of ‘discovering my own beauty.’ We constantly conduct research on beauty ingredients to enhance the beauty of everyday life and to reward you with beautiful skin and confidence.

MediAnswer

MediAnswer is a highly functional dermatological care line that integrates ABOUT ME’s cosmetics expertise with Samyang Biopharmaceuticals Corporation’s R&D technology to propose unique, customized solutions to treating your skin. We demonstrate superior skin benefits with the addition of biotechnology, deeply based on innovative ideas borne from an innate understanding of and belief in the power of skin.



Samyang Data Systems

Established in 1995, Samyang Data Systems takes advantage of its acquired experience and technology while providing high-quality IT consulting and systems integration services to assist clients and customers to be equipped with the greatest form of competitiveness.

Samyang Data Systems deploys, operates, and maintains the group’s applications and systems (ERP, CRM, KMS, Portal, HR, MES, BI, and mobile) efficiently and systematically under the mindset of successfully achieving the Samyang Group vision. It also provides stable and speedy IT services through maintenance of infrastructure resources, including hardware, network, and security systems.

Moreover, we are steadily pursuing new business lines corresponding to new IT trends based on IT outsourcing (ITO) and mobile services.

IT outsourcing (ITO) services enhance the usefulness of customer IT systems by providing specialized services across a variety of sectors based on our accumulated experience and premium technology, including those related to the government, manufacturing, finance, telecommunications, and services.

The mobile services business is currently broadening its market scope from financial to physical distribution and retail mobile markets, while developing in-house proprietary solutions, ultimately maximizing business value.

As a new business, we analyze customers’ IT services and provide consulting services for optimal cloud environment conversion. Private and public cloud building services are also provided directly to customer-based data centers.

Samyang Data Systems strives to enhance value geared toward the customer, thanks to a series of accumulated capabilities, excellence in human resources, and solutions, while adapting to the ever-changing IT services environment. The faith our customers have in Samyang acts as the guiding light that drives us to provide only the best in customer services at all times.



## Global Network

### Samyang Holdings Corporation

#### Headquarters

31, Jongno 33-gil, Jongno-gu, Seoul, Korea  
Tel:(82-2)740-7111 Fax:(82-2)740-7112  
www.samyang.com

### Samyang Corporation

#### Headquarters (Chemical businesses)

31, Jongno 33-gil, Jongno-gu, Seoul, Korea  
Tel:(82-2)740-7114 Fax:(82-2)740-7140  
www.samyangcorp.com

#### Headquarters (Food businesses)

295, Pangyo-ro, Bundang-gu, Seongnam-si,  
Gyeonggi-do, Korea  
Samyang Discovery Center  
Tel:(82-2)2157-9114 Fax:(82-2)2157-9058

#### Ulsan Plant 1 (Sugar, Ion-exchange resin)

285, Jangsaengpo-ro, Nam-gu, Ulsan, Korea  
Tel:(82-52)279-4500 Fax:(82-52)279-4505

#### Ulsan Plant 2 (Starch, Starch sugar)

115, Maeam-ro, Nam-gu, Ulsan, Korea  
Tel:(82-52)278-2500 Fax:(82-52)278-2509

#### Incheon Plant 1 (Starch, Starch sugar)

726, Baekbeom-ro, Seo-gu, Incheon, Korea  
Tel:(82-32)570-8114 Fax:(82-32)570-8299

#### Incheon Plant 2 (Oils/Fats)

121, Chukhang-daero 290beon-gil,  
Jung-gu, Incheon, Korea  
Tel:(82-32)880-8114 Fax:(82-32)880-8269

#### Asan Plant (Wheat flour, Premix)

710-46, Asanho-ro, Yeongin-myeon,  
Asan-si, Chungcheongnam-do, Korea  
Tel:(82-41)539-7800 Fax:(82-41)541-6821

#### Jeonju EP Plant (Engineering plastics)

147, Palbok-ro, Deokjin-gu, Jeonju-si,  
Jeollabuk-do, Korea  
Tel:(82-63)210-6664 Fax:(82-63)210-6677

#### Sejong Plant (Electronic materials)

471, Waryong-ro, Yeonso-myeon,  
Sejong-si, Korea  
Tel:(82-44)589-5999 Fax:(82-44)868-4200

#### Chemical R&D Center

730, Daedeok-daero, Yuseong-gu,  
Daejeon, Korea  
Tel:(82-42)865-8114 Fax:(82-42)865-8099

#### Food R&D Center

295, Pangyo-ro, Bundang-gu,  
Seongnam-si, Gyeonggi-do, Korea  
Tel:(82-2)2157-9705 Fax:(82-2)2157-9069

#### Electronic Materials R&D Center

730, Daedeok-daero, Yuseong-gu,  
Daejeon, Korea  
Tel:(82-42)865-8114 Fax:(82-42)865-8309

#### Tokyo Branch

The Hibiya Marine Bldg. 8th Floor. 1-5-1,  
Yurakucho, Chiyoda-ku, Tokyo 100-0006,  
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#### Shanghai Office

Room 1504, Metro Plaza, No.555,  
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#### New York Office

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Bldg.), New York, N.Y. 10174, U.S.A.  
Tel:(1-212)972-0011 Fax:(1-212)972-0016

#### Hanoi Office

11th Floor, 3D Creative Center Building, Duy  
Tan Street, Cau Giay District, Hanoi, Vietnam  
Tel:(84-024)3556-0343

#### Shenzhen Office

Room 2120, A Block Hairun Centre,  
NO.6021 Shennan Road, Futian District,  
Shenzhen, China 518040  
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#### San Diego Office

8340 Clairemont mesa blvd. Suite214,  
San Diego, CA92111, U.S.A.  
Tel:(1-858)569-1964

### Samyang Biopharmaceuticals Corporation

#### Headquarters

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Tel:(82-2)2157-9111 Fax:(82-2)2157-9062  
www.samyangbiopharm.com

#### Biopharmaceuticals R&D Center

295, Pangyo-ro, Bundang-gu,  
Seongnam-si, Gyeonggi-do, Korea  
Tel:(82-2)2157-9871 Fax:(82-2)2157-9064

#### MD Plant

55, Munpyeongseo-ro 18beon-gil,  
Daedeok-gu, Daejeon, Korea  
Tel:(82-42)930-3114 Fax:(82-42)931-6439

#### Pharmaceuticals Plant

79, Sinildong-ro, Daedeok-gu, Daejeon, Korea  
Tel:(82-42)930-9303 Fax:(82-42)934-1403

#### Samyang Biopharm USA Inc.

200 One Kendall Square Suite 2-402  
Cambridge, MA 02139, U.S.A  
Tel:(1-617)812-6960 Fax:(1-617)812-6986

### Samnam Petrochemical Co., Ltd

#### Headquarters

31, Jongno 33-gil, Jongno-gu, Seoul, Korea  
Tel:(82-2)740-7450 Fax:(82-2)745-4225  
www.samnam.co.kr

#### Yeosu Plant

955, Yeosusandan-ro, Yeosu-si,  
Jeollanam-do, Korea  
Tel:(82-61)688-8114 Fax:(82-61)688-8008

### Samyang Kasei Co., Ltd

#### Headquarters

31, Jongno 33-gil, Jongno-gu, Seoul, Korea  
Tel:(82-2)741-5011 Fax:(82-2)740-7039  
www.samyangkasei.com

#### Jeonju Plant

376, Ongoeul-ro, Deokjin-gu, Jeonju-si,  
Jeollabuk-do, Korea  
Tel:(82-63)210-1114 Fax:(82-63)211-1240

### Samyang Packaging Corporation

#### Headquarters

31, Jongno 33-gil, Jongno-gu, Seoul, Korea  
Tel:(82-2)740-7853 Fax:(82-2)740-7766  
www.samyangpackaging.com

#### Gwanghyewon Plant

114, Jukhyeon-gil, Gwanghyewon-myeon,  
Jincheon-gun, Chungcheongbuk-do, Korea  
Tel:(82-43)530-1600 Fax:(82-43)535-6171

#### Daejeon Plant 1

47, Daedeok-daero 1417beon-gil,  
Daedeok-gu, Daejeon, Korea  
Tel:(82-42)939-3114 Fax:(82-42)931-1248

#### Daejeon Plant 2

85, Sinilseo-ro 17beon-gil, Daedeok-gu,  
Daejeon, Korea  
Tel:(82-42)605-8500 Fax:(82-42)605-8555

#### Jincheon Plant

92, Mundeok 1-gil, Munbaek-myeon,  
Jincheon-gun, Chungcheongbuk-do, Korea  
Tel:(82-43)530-7715 Fax:(82-43)533-7174

### Samyang Innochem Corporation

133, Jayumuyeok 1-gil, Gunsan-si,  
Jeollabuk-do, Korea  
Tel:(82-63)440-7114 Fax:(82-63)464-1509  
www.samyanginnochem.com

### Samyang Fine Technology Corporation

63, Jayumuyeok 1-gil, Gunsan-si,  
Jeollabuk-do, Korea  
Tel:(82-63)440-0808 Fax:(82-63)464-6835  
www.samyangfinetechnology.com

### Samyang F&B Co., Ltd

4F, 18, Bukchon-ro, Jongno-gu, Seoul, Korea  
Tel:(82)1670-5270 Fax:(82-2)425-4086  
www.sevensprings.co.kr

### Samyang Data Systems Inc.

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www.syds.com

### CREA CHEM Co., Ltd

236-32, Yuguoegwak-ro, Yugu-eup,  
Gongju-si, Chungcheongnam-do, Korea  
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### KCI Limited

#### Headquarters-Daejuk Plant

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#### Sihwa Plant

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Siheung-si, Gyeonggi-do, Korea  
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#### Seoul Office-Research Institute

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### Medichem Co., Ltd

11-27, Tancheonsaneopdanji-gil,  
Tancheon-myeon, Gongju-si,  
Chungcheongnam-do, Korea  
Tel:(82-41)881-2884 Fax:(82-41)881-2885

### Samyang Engineering Plastics (Shanghai) Co., Ltd

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### Samyang EP Hungary Co., Ltd

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### Samyang EP Vietnam LLC

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We will strive to achieve endless innovations  
that drive us to discover special values.  
We will evolve into a global brand that delivers  
abundance and convenience in the lifestyle  
of consumers.

Samyang management strategy and direction are flawlessly integrated into our vision of “Ingredients that add value to life.”

Tactfully navigating through rapidly changing times to achieve our goals requires that we make preemptive changes and actively stand at the forefront of changing times.

Samyang pioneers lead the change with ceaseless innovations and a determined mindset in becoming a global brand that is fully dedicated to enhancing its core competencies of R&D and technology while creating differentiated values through creative thinking and boldness in action. We will drive ourselves to create a level of abundance and convenience in lifestyle for everyone by creating superior quality products that promote an increased standard of living.

We ask that you stay tuned for the next 100 years of Samyang, as we blossom into an invaluable global brand that enhances the quality of life of global citizens and creates a new tomorrow by providing only the best of products.