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Quegen Biotech

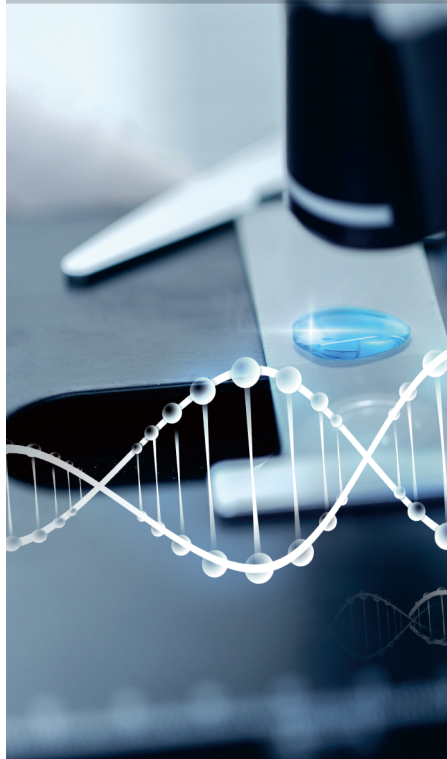
Cares

Customer's Health and Beauty.

Natural
Wellbeing
Environment

Quegen 

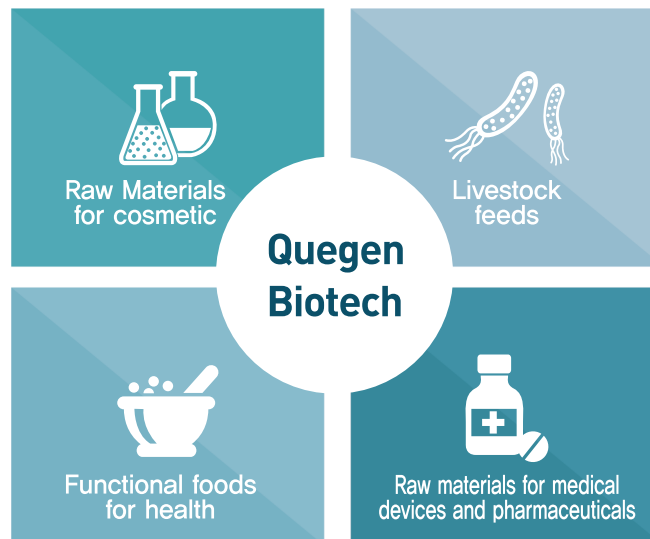
Company Introduction



Quegen Biotech Co., Ltd. is a venture company which develops and manufactures new biomaterials for cosmetics and functional foods, and specializes in fermentation for the production of highly efficacy bio-materials originated from microorganisms.

Quegen Biotech's mission is to contribute to a healthy and beauty society by creating highly valuable products through R&D.

Business Field



Company philosophy



Quegen Biotech Product Characteristics

Natural

Quegen Biotech Co., Ltd. searches for highly effective natural biomaterials and develops and launches raw materials or finished products in the area of functional foods and cosmetics by using up to date biotechnology.

Wellbeing

Quegen Biotech supports customers' health and beauty by producing human-friendly products with natural materials through clean manufacturing processes.

Environment

As a technology-oriented biotechnology company, Quegen Biotech reduces environmental pollution by developing green technologies that enable it to reuse biowastes, and develops bioprocesses to create ecofriendly products from them.



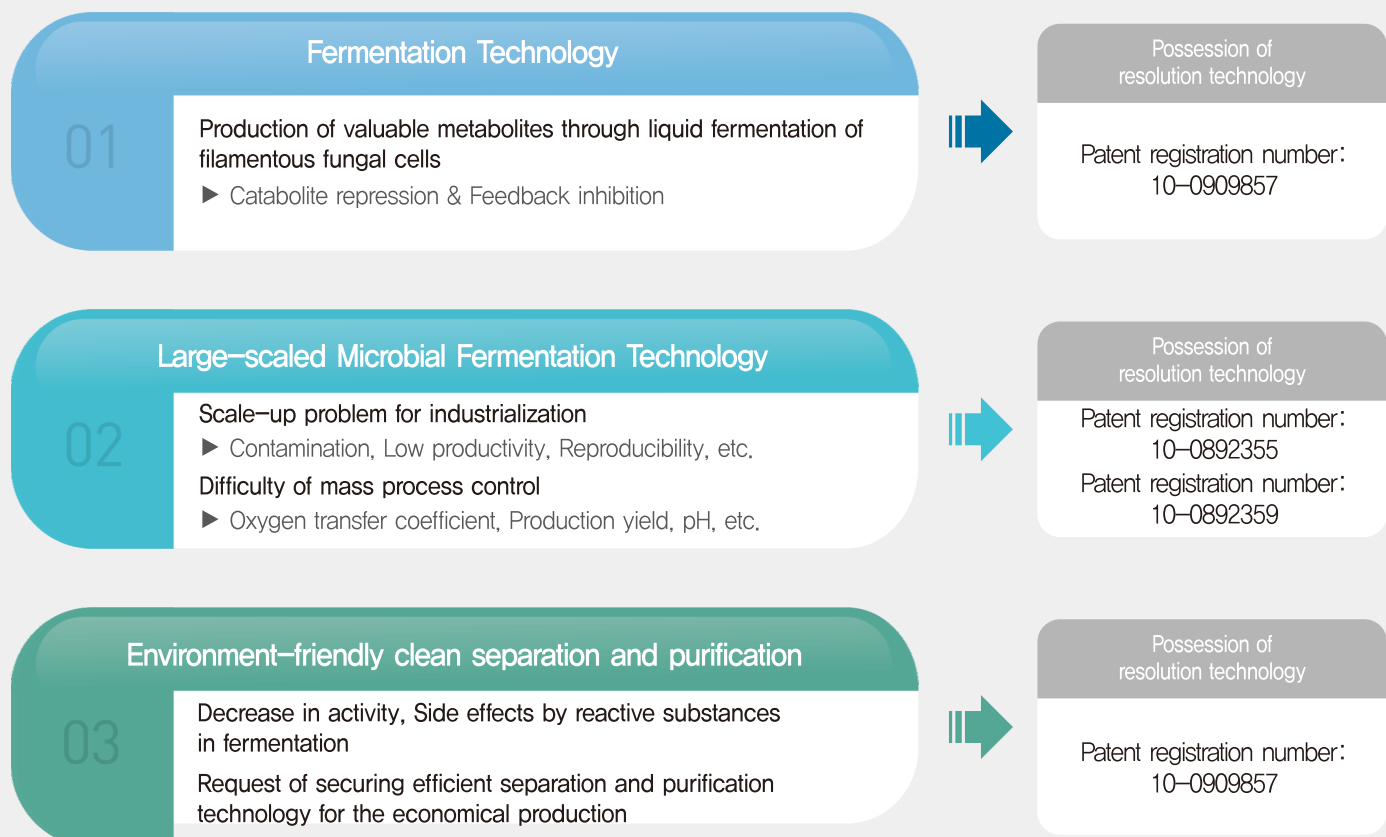
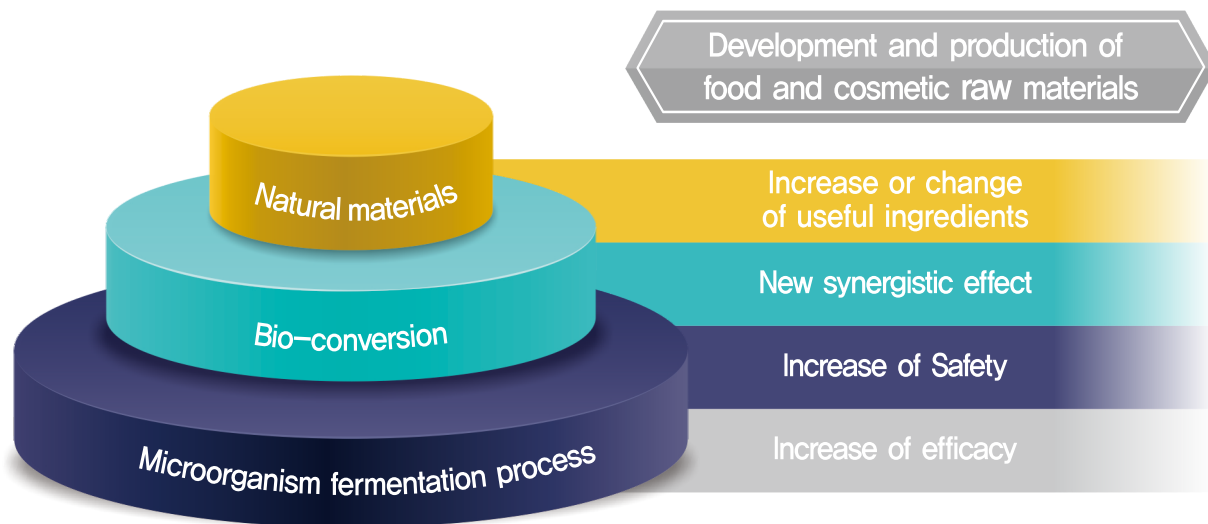
2006	Jan.	Founded Quegen Biotech Co.,Ltd. In Korea
	Oct.	Appointed as a venture company
	Dec.	Founded subsidiary company at Jeju National University
2007	Feb.	Completed the main factory (10 ton microbial liquid-state Fermentation isolation and refining facility)
	Nov.	Selected as the company for "Technology Business Incubator" by the ministry of the commerce, Industry and Energy
2008	Feb.	Launched a highly effective moisturizing material for cosmetics "GlucanREAL"
	Mar.	Launched a highly effective moisturizing material for cosmetics "GlucanPURE"
	Aug.	ISO9001, 14001 Approved
	Oct.	EU Reach Registration completed
2009	Oct.	INNO-BIZ Approved
2010	Jan.	AtoQuegen Plus USA FDA Test Passed
2011	Jan.	Export to Hong Kong, Thailand, Indonesia, China
2012	May.	Launched Ato Quegen II
2013	May.	Production of Sparassis crispa, Hyaluronic Acid
2014	Jan.	Export to Japan
2015	Feb.	BEP Achieved
2016	Jan.	Gamma PGA, Biobetter (tuberculosis, Diabetes, Obesity)
2017	Jan.	Launched Feed stuff, Pet foods, Relief hangover beverage

Patents

Title	Registered date	Registered No.
β -1,6-branched-1,3-glucan high-yielding strain, Schizophyllum commune QG143-1	JULY 22, 2009	KR10-0909857
Large-scale production of β -1,6-branched- β -1,3-glucan using semi-continuous fermentation performed with Schizophyllum commune	April 01, 2009	KR10-0892355
Production of scleroglucan through cultivation of Sclerotium sp. in a culture medium adding mandarin peels as carbon source	April 01, 2009	KR10-0892359
Manufacturing method of beta-glucan polymer for tissue engineering using radiation fusion technology and its applications	June 15, 2012	KR10-1158776
Beta-Glucan based scaffold for biological tissue engineering using radiation fusion technology, and production method therefor	November 26, 2013	US 8,592,574 B2
Beta-Glucan based scaffold for biological tissue engineering using radiation fusion technology, and production method therefor	June 25, 2014	ZL 201080005258.0
Beta-Glucan based scaffold for biological tissue engineering using radiation fusion technology, and production method therefor	February 14, 2014	5474094
Preparation method of biodegradable porous polymer scaffolds containing hydroxyapatite for tissue engineering	January 07, 2008	10-0794174

The core technology of Quegen Biotech Co., Ltd.

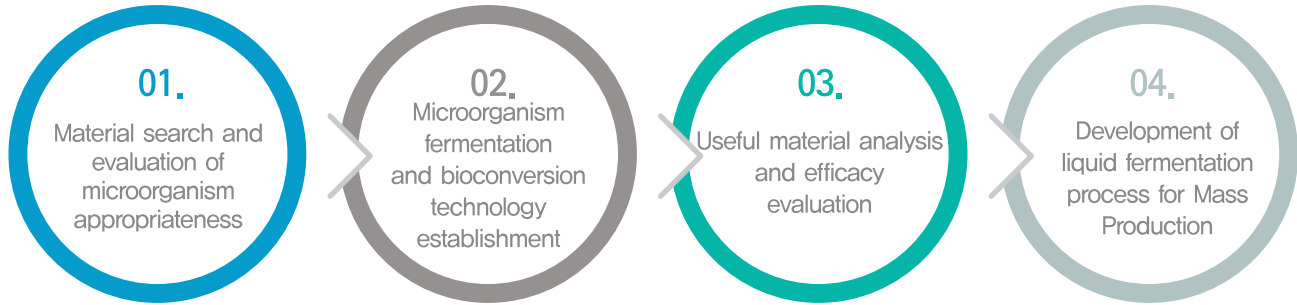
Quegen Biotech Co., Ltd. is a technology-intensive bio-venture company that possesses the know-how of useful material production system using microorganism culture, and its core technology and quality are acknowledged in the cosmetic product raw material market by providing high-quality products reliably through microorganism fermentation technology and bioconversion technology.



Possessed technologies

1. Fermentation

Possession of liquid fermentation technology of various mushroom mycelia including lactobacillus and yeast culture Especially, possessed production technology, which requires very precise and high-tech know-how, of useful materials through liquid fermentation of filamentous fungal cells.



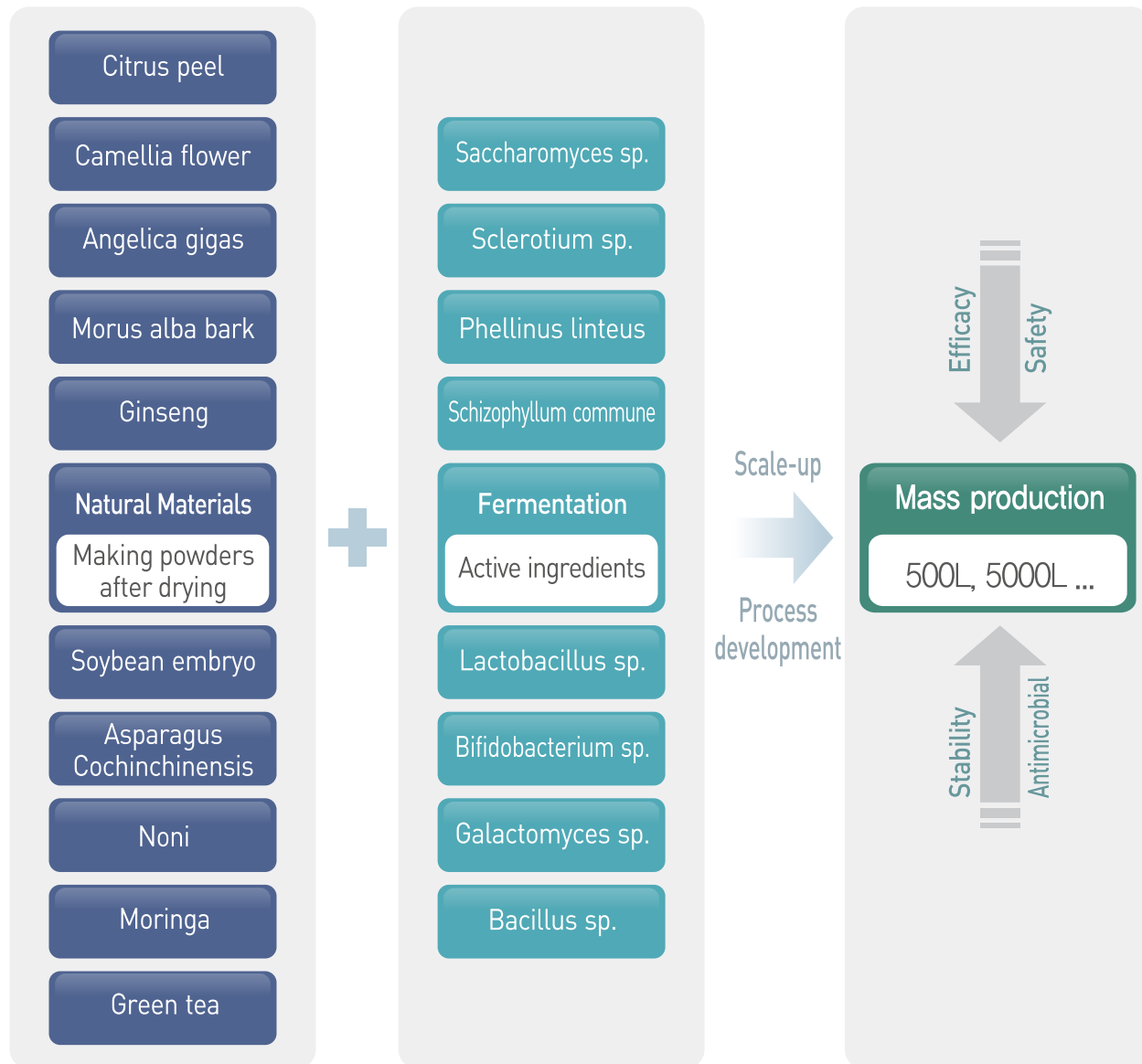
<p>Develop of High-yielding strain Optimization of Production Medium by Statistical method</p>	<p>Establish of standards and test methods for development materials Studies on Cultural Characteristics and optimization of cultural processes</p>	<p>Large-scaled fermentation technology of filamentous fungal cells</p>

Certificates

Possessed technologies


2. Bioconversion

Bioconversion, also known as biotransformation, is the conversion of organic materials, such as plant or animal waste, into usable products or energy sources by biological processes or agents, such as certain microorganisms.



- ▣ Fermentation of natural materials such as plant or animal waste using certain microorganisms
- ▣ The bioconversion of organic materials to active ingredients by microbial fermentation
 - The use of natural resources
 - The activation of the ingredients
 - A conversion to new materials
- ▣ The material with reduced molecular weight by fermentation enhances its skin absorption.
- ▣ Reduction of toxic substances in natural extracts

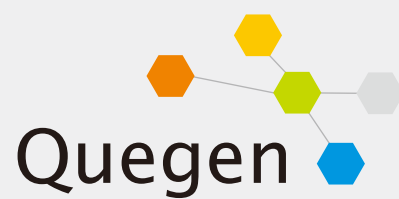
Main Product

Product name	INCI Name	Manufacturer
GlucanREAL	Beta-Glucan	Quegen Biotech Co., Ltd.
Product information	<p>Typical properties Chemical structure: β -1,6-branched- β -1,3-glucan Origin: Schizophillum commune (biotechnological product) Content of beta-glucan: 0.4% Description: colorless or light yellow, Transparent viscous liquid Odor: Characteristic slightly odor pH: 5.5~7.5 Viscosity: 340~500cps</p> <p>Key functions Moisturizing Alleviation molecule for skin irritation(Anti-irritation) Induction of collagen biosynthesis(Anti-aging) Immunomodulation(Enhancement of skin immunity) Sunburn cure(Recovery of damaged skin) Anti-inflammatory effect</p> <p>Applications General cosmetics : skin care, Bath and shower, etc. Sun block cream : sun care Moisturizing lotion for atopic patient Moisturizing cosmetics for dryness</p>	

GlucanREAL is an Efficient Raw Material for the Production of Skin Care Cosmetics.

Product List

Fermentation products		
Brand Name	INCI Name	Efficacy
GlucanREAL	Beta-Glucan	Moisturizing, Anti-inflammation
GlucanPURE	Sclerotium gum	Moisturizing, Soothing
HyaluREAL(1.0)	Sodium Hyaluronate	Moisturizing, Anti-aging
BifidoREAL	Bifida Ferment Filtrate	Moisturizing, Improvement of skin texture
SaccharoREAL	Saccharomyces Ferment Filtrate	Moisturizing, Anti-aging
LactoREAL	Lactobacillus Ferment Lysate Filtrate	Moisturizing, Whitening
GalactoREAL	Galactomyces Ferment Filtrate	Moisturizing, Improvement of skin tone
FlavozymeCP	Schizophyllum Commune/Citrus Unshiu Peel Extract Ferment Filtrate	Moisturizing, Improvement of wrinkles
LactoREAL(Milk)	Lactobacillus/Milk Ferment Filtrate	Moisturizing, Nutrient supply
Natural Extracts		
Brand Name	INCI Name	Efficacy
MoringaREAL	Moringa Oleifera Leaf Extract	Moisturizing, Antioxidation
OatREAL	Avena Sativa (Oat) Kernel Extract	Antioxidation, Skin emollient
CitrusREAL	Citrus Unshiu Peel Extract	Antioxidation, Antimicrobial
CentellaREAL	Centella asiatica extract	Skin regeneration, Anti-inflammation
AroniaREAL	Aronia Melanocarpa Fruit Extract	Antioxidation
MorusREAL	Morus Alba Bark Extract	Whitening
PortuREAL	Portulaca Oleracea Extract	Anti-inflammation, Soothing
CamelliaREAL	Camellia Sinensis Leaf Extract	Antioxidation, Skin emollient
DioscoREAL	Dioscorea Japonica Root Extract	Moisturizing, Improvement of skin texture
HippoREAL	Hippophae Rhamnoides Fruit Extract	Antioxidation
Bulgaria Rose Water	Rosa Damascena Flower Water	Fragrance, Improvement of skin texture
HPDR Solution(1%)	Sodium DNA	Hydration, Skin regeneration



QUEGEN BIOTECH's mission is
to contribute to human health and beauty
by creating high value products through R&D.

QUEGEN BIOTECH Co., Ltd.

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