Introduction
Ben’s Lab Co., Ltd.
Company Overview

Ben’s Lab Co., Ltd.

Mar. 8, 2002

Nutraceuticals, Functional cosmetic ingredients, Natural pharmaceuticals

KITI 11FL, The University of Suwon, Wauan-gil 17, Bongdam-eup, Hwasung-si, Gyeonggi-do, Korea

Mission

We shall contribute for human well-being so that everyone can live vividly on the earth.
Our continuous development of functional food & skin-care products will support your happy lives and global dream.
Global company researching functional and natural products

Contribution to healthy life

Natural Products Drug Research & Development

Skin Health Care Ingredient Development

Functional Food Development
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>Started to sell the Fermented Lotus Flower to “ToniMoly”&lt;br&gt;Developed the Fermented omega-3, Mirasol (preventing hair loss), and Benetol for BPH</td>
</tr>
<tr>
<td>2013</td>
<td>Improvement of the symptoms of andropause; “Namgaseyae”&lt;br&gt;Started to sell Atobenia cream, lotion, soap in drug-stores&lt;br&gt;Developed functional ingredient for blood circulation (SmooCell) and cosmetic ingredient to relieve acne for sensitive skin (SP1000)&lt;br&gt;Developed various kinds of fermented oils including Borage, Dongbaek, Moringa, Evening Primrose, Green Tea Seed, and Olive oils&lt;br&gt;Performed formal clinical test for functional composition of anti-arthritis and pain-relieving “NSAIF-Q”</td>
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<tr>
<td>2012</td>
<td>Natural extract which has the effects of irritation-alleviation and anti-inflammation for the skin, “GLCE-AP”</td>
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<tr>
<td>2011</td>
<td>Launched “Hyojason cream and oil”&lt;br&gt;Developed functional material for the increase of male hormone (testosterone) and sperm count in semen, &quot;MP119&quot;</td>
</tr>
<tr>
<td>2010</td>
<td>Boryung Pharmacy : Altin-Zero curcuma (hangover-relieving drink) launched.&lt;br&gt;Developed functional composition for anti-arthritis and pain relieving “NSAIF-Q”</td>
</tr>
<tr>
<td>2009</td>
<td>KFDA-authorized Bendu-381 as a product-specific health functional material for allergic rhinitis (No. 2009-16)</td>
</tr>
<tr>
<td>Year</td>
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<tr>
<td>2008</td>
<td>Provided Hi-Living with “Vitamin C.E,” “Atobenia cream,” and “PG facing foaming cream”</td>
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</table>
| 2007 | Developed functional material improving allergic rhinitis “Guava leaf extract mixture (Bendu-381)”  
     | Awarded by the Ministry of Health and Welfare at the Exhibition of Health Industrial Technology, Korea 2007 (HITEK 2007) |
| 2006 | “Altinzero” exported to Japan and functional diet material “Slimpid” developed |
| 2005 | Certified as a Korean Venture Business from the Korean government  
     | Certification of ISO 9001 and ISO 14001 |
| 2004 | Alcotin-X exported to Japan, Radicare launched  
     | Developed AN-1000 with hangover-relieving effect and reduction of harmful effects from smoking |
| 2003 | Natural antimicrobial liquid “Nordecay” developed |
Research of Ben’s Lab

• Industry-University-Research Institute Consortium in Gyeonggi-province (Research Fund Supported)
  Screening of natural resources for amylase inhibitor
• Small & Medium Business Administration
  Development of functional foods from natural materials for palliation and prevention of prostate diseases
• Industry-University-Research Institute Consortium in Gyeonggi-province
  In order to develop the improved products for atopic dermatitis, more than 100 kinds of edible natural materials have been selected to develop initial raw materials for 5-lipoxygenase inhibitor through screening process
• Ministry of Health and Welfare
  Development of a crude drug for cure and improvement of allergies using the domestically wild-growing Ben-381 which inhibits the Leukotriene synthesis function
• Industry-University-Research Institute Consortium in Gyeonggi-province
  Raw material search for development of the natural antiseptic substances for cosmetics
• Small & Medium Business Administration
  Development of new material drinks for offering benefits over anti-obesity and functional foods using fermented products of phytosterol, which is a functional raw material
• Industry-University-Research Institute Consortium in Gyeonggi-province
  Development of functional new raw materials and final goods from researched edible herbs as inhibitor of angiotensin converting enzyme for improvement and strength of sexual function
• Integrated Cluster Solutions
  Research for physiological functionality of bio materials containing persimmons
• Joint Research for Technology Development by Industry-University-Research Institute
  Development of functional new materials for stimulation of lipolysis and inhibition of steatopygia
**Patents of Ben’s Lab**

Registration Status of Industry and Intellectual Property Rights (I)

<table>
<thead>
<tr>
<th>No.</th>
<th>Patent Description</th>
<th>Patent Number</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Functional food composition containing anti-oxidative, anti-arthritic and anti-dementia effects</td>
<td>10-0510253</td>
<td>(registered)</td>
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<tr>
<td>2.</td>
<td>Cosmetic composition having anti-oxidative and anti-inflammatory effects</td>
<td>10-0549661</td>
<td>(registered)</td>
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<td>3.</td>
<td>Pharmaceutical composition comprising chitosan, chito-oligosaccharide and grapefruit seed extract having antibacterial activity</td>
<td>10-0530578</td>
<td>(registered)</td>
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<td>4.</td>
<td>Functional food composition showing effects of anti-allergic rhinitis, anti-atopic dermatitis and anti-chronic asthma</td>
<td>10-0570959</td>
<td>(registered)</td>
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<td>5.</td>
<td>Composition comprising an extract of PR-119 formulation for prevention and treatment of benign prostatic hyperplasia</td>
<td>10-0769412</td>
<td>(registered)</td>
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<td>6.</td>
<td>A drink decomposing cholesterol and a formulation decomposing the same</td>
<td>10-0690980</td>
<td>(registered)</td>
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<td>7.</td>
<td>Functional composition for prevention/relief of alcohol-induced hangover symptoms</td>
<td>10-0690071</td>
<td>(registered)</td>
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<td>8.</td>
<td>Composition comprising complex crude extract showing anti-allergic rhinitis, anti-atopic dermatitis or anti-asthma activity</td>
<td>10-0834850</td>
<td>(registered)</td>
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<td>9.</td>
<td>Functional composition for the improvement of cotinine metabolism caused by smoking and hangover removal, foods and food additives containing the same</td>
<td>10-0872310</td>
<td>(registered)</td>
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<td>10</td>
<td>Patent</td>
<td>Norcardia sp. producing cholesterol oxidase with body fat decomposing activity and method of producing cholesterol oxidase</td>
<td>NO. 10-1095468 (registered)</td>
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<td>11</td>
<td>Patent</td>
<td>Functional composition for the prevention of hangover symptom and improvement of liver function</td>
<td>NO. 10-1093998 (registered)</td>
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<td>12</td>
<td>Patent</td>
<td>Functional composition with the effects of improving hyperlipidemia and losing body weight</td>
<td>No. 10-2009-0028088 (applied)</td>
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<td>13</td>
<td>Patent</td>
<td>Composition comprising the crude complex for prevention of skin aging and care of skin and health functional food for prevention of skin aging and improvement of skin complexion</td>
<td>No. 10-2009-0040461 (applied)</td>
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<tr>
<td>14</td>
<td>Patent</td>
<td>Functional composition for the prevention and symptom relief of hangovers, and foods and food additives having the same</td>
<td>No. 10-2009-0047633 (applied)</td>
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<td>15</td>
<td>Patent</td>
<td>Functional composition for improvement of sexual function with increase sperm count and preventive effect against environment hormone and food having the same</td>
<td>No. 10-2009-0048207 (applied)</td>
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<td>INT’L Patent</td>
<td>COMPOSITION COMPRISING THE CRUDE DRUG EXTRACTS FOR IMPROVING LIVER FUNCTION (Japan)</td>
<td>PCT/KR2006/003817 (applied)</td>
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<td>20</td>
<td>Patent</td>
<td>Functional composition having improved and preventive effects of anti-oxidant, anti-allergy and anti-dermatitis activities and the producing method and food using the same</td>
<td>No. 10-2010-0050391 (Applied)</td>
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<td>21</td>
<td>Patent</td>
<td>Functional composition that inhibits absorption of fat, carbohydrate and protein and foods using the same</td>
<td>No. 10-1201286 (registered)</td>
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<td>22</td>
<td>Patent</td>
<td>Functional composition that has excellent prevention and treatment effect against cough and sputum and health food using the same</td>
<td>No. 10-1247611 (registered)</td>
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<td>23</td>
<td>Patent</td>
<td>Food composition for the oral purpose with anti-inflammatory activity</td>
<td>No 10-1263356 (registered)</td>
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<td>24</td>
<td>Patent</td>
<td>Functional food composition with the effects of anti-inflammation and pain-relieving</td>
<td>No 10-1284772 (registered)</td>
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<td>25</td>
<td>Patent</td>
<td>Functional skin external composition that has excellent prevention and improvement against Inflammatory skin trouble</td>
<td>No 10-2013-0032869 (applied)</td>
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<td>26</td>
<td>Patent</td>
<td>FUNCTIONAL COMPOSITION FOR PREVENTION AND IMPROVEMENT OF BLOOD CIRCULATION AND MANUFACTURING METHOD THEREOF</td>
<td>No 10-2013-0032870 (applied)</td>
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<td>27</td>
<td>Patent</td>
<td>Functional Composition for prevention and improvement of periodontal and manufacturing method</td>
<td>No 10-2012-0123157 (applied)</td>
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<td>44</td>
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<td>45</td>
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<td>SmooCell</td>
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<td>46</td>
<td>Trademark</td>
<td>Cosbenia</td>
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</tbody>
</table>
Products

- Nutrients & Food Ingredients
- Cosmetic Ingredients
- ODM Products
Nutrients & Food Ingredients

- Bendu-381
- MP119
- AN-1000
- Slimpid
- NSAIF-Q
- SmooCell
- BenTooth
Bendu-381
Functional material improving allergic rhinitis

Listed as a product-specific raw material by the Korea Food and Drug Administration (No. 2009-16)

Effective claim: “Effective for the sensitive nose (symptoms of nose urtication, sneezing, nasal discharge)

- Response within 1-2 weeks from initial intake
- Start intake before 2 weeks of nasal symptoms if you suffer from seasonal allergies
- Not only allergic rhinitis but also other symptoms belonging to type I hypersensitivity can be improved.
- Awarded by Ministry of Health and Welfare at the Health Industrial Technologies Exhibition, Korea 2007 (HITEK 2007)

Core substance: Bendu381
Patent: “A composition comprising complex crude drug extracts showing anti-Allergic rhinitis, anti-atopic dermatitis and anti asthma activity”
No 10-0834850 (Register) / PCT/KR2006/3856
MP119
Improvement of Blood circulation and Sexual function

Increase the level of male hormone (testosterone) in the blood and sperm count as well as protection from various endocrine system-disturbing environmental toxic chemicals which used to cause sexual dysfunction)

- 20-30% increase of testosterone in the blood and 15-20% of sperm count
- Anti-aging effect with the increase of male hormone level in the blood
- Rapid fatigue recovery, improvement of blood circulation and memory
- Start feeling the improvement of sexual function after 2-3 weeks, improvement of numbness for women
- Induce blood vessel dilation by inhibition of cGMP phosphodiesterase (PDE type 5)
- Lower blood pressure and improve blood flow by inhibition of ACE (Angiotensin-converting enzyme)
- Minimize harmful effect against sex organs or decrease in sperm number caused by environmental hormone or heavy metals such as cadmium or mercury
- Main substances are Red ginseng, Maca, Tribulus terrestris and Korean herb extracts which are optimized for good digestive absorption
- Recommend 3-6g for acceptable daily intake

Core substance: MP119
Patent: “Functional composition for improvement of sexual function with increase sperm count and preventive effect against environmental hormones and food having the same” No. 10-2009-0048207 (applied)
AN-1000
Relieving hangover and prevention of harmful effect from smoking

Functional drink for relieving hangover, liver protection, and prevention of harmful effects derived from smoking
Quick transforming hangover-main factor “acetaldehyde” into harmless acetic acid and blocking of certain hepatic cytochrome P450 to promote the production of harmless cotinine from nicotine
❖ For heavy smokers/drinkers
❖ For persons who want to be relieved rapidly from hangover
❖ For persons who want to drink 1.5 times more than the usual
❖ For persons who want to get up in the morning with refreshed condition

Core substance: AN1000

"Functional composition for the cotinine metabolic syndrome improvement which is caused by smoking and hangover relief, foods and food additives containing the same No.10-0872310 (registered)
Functional food, Slimpid, shows diet effect of 650g of body weight per month and 3.5 cm (waist) during the same period without any side effects from the clinical trial. Take 1g per day.

- Reduction of fat accumulation by inhibition of digestion and absorption of fat, carbohydrate, and protein and by activation of lipolysis
- Losing weight of 650g even without exercise or other dietary treatment.
- More effective when exercise and dietary treatment are paralleled.
- Good for skin as well because it has anti-oxidant activity.
- Effects proved through cell test, animal test, and clinical trial
- Characteristics: Obvious reduction of body weight may not be resulted in the first month of intake, but the successful weight reduction will begin from the second month.

Core substance: Slimpid
Patent: “Functional composition with absorption inhibition effect of fat, carbohydrate and protein, fat accumulation and lipolysis and health food using the same.” No. 10-1201286 (registered)
“A drink decomposing cholesterol and a formulation decomposing the same” No. 10-0690980 (registered)
**NSAIF-Q**

Anti-inflammatory Analgesic Effect
(arthritis, muscle pain and other diseases related to inflammation)

Reduction of enzymes related to inflammation (iNOS, LO, COX-2, MMP-13), inhibition of activation and considerable reduction of index material (TNF-a, IL-1b, IL-6, Prostaglandin-E2, NO) related to inflammation

- Higher inhibitory activity against COX-2 and iNOS than aspirin and ibuprofen, respectively
- Inhibition of inflammatory enzymes
- No GI-trouble
- No side effects because it is composed of natural food extract
- Applicable for degenerative and rheumatic arthritis, muscle pain, uveitis, bronchitis, backache, headache, body ache, and etc.
- Good for facial skin because of its excellent anti-oxidant and soothing effects
- Recommended to take 1-2g a day depending on the symptom
- Preparing for the approval of product-specific raw material as a functional health food

**Core substances**: NSAIF-Q (Non-steroidal anti-inflammatory food)

**Patent**: Food composition for the oral purpose with anti-inflammatory activity No 10-1263356 (registered)

Functional food composition with the effects of anti-inflammation and pain-relieving No 10-1284772 (registered)
SmooCell
Blood flow improving

Effective in symptoms derived from blood circulation disorders (atherosclerosis)
(Memory decline, disabling illness, attention deficit, chronic fatigue)

- Inhibition of vascular inflammation related enzymes (COX-2, 5-LO)
- Inhibition of LDL-cholesterol oxidation
- Reduced expression of vascular and intercellular adhesion protein (ICAM-1, VCAM-1)
- Improvement of triglyceride (TG) level in the blood
- Improvement of total cholesterol level in the blood
- Improvement of LDL-cholesterol level in the blood
- Reduction of vascular inflammatory markers (CRP) and thrombosis (TB2)
- Can dissolve fibrin clot

Solubilization of fibrin

Patent: FUNCTIONAL COMPOSITION FOR PREVENTION AND IMPROVEMENT OF BLOOD CIRCULATION AND MANUFACTURING METHOD THEREOF  No 10-2013-0032870 (applied)
Bentooth
Improvement of gum diseases

- Natural ingredients with relieving effects of gum inflammation, odontoseisis, and gum pain
- Simple clinical test showed more effective than generic drugs such as “Yigatan” and “Insadol”
- With good taste, applicable as gum, tablet, drink, granule and other types.

**Patent:** Functional Composition for prevention and improvement of periodontal and manufacturing method
No 10-2012-0123157 (applied)

- Simple Clinical Test
  - Tested in Anyang C dentist for patients with periodontitis
  - On average each patients showed improved effect of 1.9 ~ 2.8 times for six items

**Average Improvement**

<table>
<thead>
<tr>
<th></th>
<th>Bleeding</th>
<th>Bad breath</th>
<th>Swelling</th>
<th>Gums pain</th>
<th>Teeth shaking</th>
<th>Teeth ache</th>
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</table>
Cosmetic Ingredients

- Acne SP 1000
- GLCE-AP
- F. Lotus Flower Extract
- Fermented Oil
Acne SP 1000

Anti-bacterial & anti-inflammatory against *P. acne* & *S. aureus*

No Benzoyl Peroxide, No Salicylic acid, No Steroid

- Natural plant extract composition without skin irritation
- MIC value against purulent skin flora “*S. aureus*”: better than Benzoyl Peroxide
- MIC value against “*P. acnes*”: similar to Benzoyl Peroxide
- Excellent anti-inflammatory effect: inhibit degranulation of mast cells and histamine release with concentration-dependence

![Image of plant extracts and histamine production graphs](image-url)
GLCE – AP

Irritation alleviation, Anti-allergic, Anti-inflammation, Antioxidation

- Excellent DPPH radical scavenging activity and high content of polyphenol with high antioxidant capacity
- Strong inhibition of histamine release and nitric oxide production
- Effective inhibition of COX-2 which is one of main enzymes related to inflammation
  Excellent inhibition of collagenase which breaks down the collagen in the skin.
- MTT Assay: proved non-cytotoxicity
- Inhibition of tyrosinase which catalyzes the metabolism to produce melanin.

Patent: No. 10-0834850 (registered) Composition comprising complex crude extract showing anti-allergic rhinitis, anti-atopic dermatitis or anti-asthma activity
Fermented Lotus Flower Extract
Skin moisturizing, Whitening, and Soothing

Filtrate of Lotus flower extract fermented through Double Microhousing Fermentation Technology

Fermented lotus flower extract from Double Microhousing Fermentation

- obtains many skin-friendly flavonoids.
- has the increased effect to protect the skin.
- has the anti-oxidative effect against reactive oxygen species

Quercetin and Kaempferol in the fermented Lotus flower extract have strong synergistic effect against inflammation and are effective to relieve sensitive skin troubles.

Skin moisturizing, Whitening, and Soothing

![Graphs showing skin moisture capacity, trans-epidermal water loss (TEWL), and increased expression of procollagen type 1 measured by ELISA.]

Procollagen type 1 production (%)

control TGF-b1 3.13% 6.25% 12.50%
F.Lotus Flower Ext.
Fermented Oil
Cell regeneration, Skin moisturizing, Anti-inflammation

Facial oils such as Borage oil, Dongbaek oil, Moringa oil, Evening primrose oil etc. are fermented through unique BCRF technology of Ben’s Lab

- Essential fatty acids are released from oil through BCRF Process
- Active ingredients of oil with small molecules transformed through BCRF process can be penetrated easily into skin
- Essential fatty acids released by fermentation are to be used during the regeneration of damaged cell membrane
- High effects of moisturizing, regenerating damaged skin membrane, and soothing sensitive skin troubles

Before Fermentation | After Fermentation

1. γ-linolenic acid (GLA)
2. Linoleic acid (LA)
3. Oleic acid (OA)
ODM Products

- Atobenia Cream & Oil
- Hyojason Cream & Oil
- Hyojason Tablet
- Radicare
- Namgaseyae
Atobenia Cream & Oil
Skin protection, Anti-oxidation, Moisturizing, Strengthening of immune system, Relief of inflammation and itching, Improvement of atopy

1. Cause Care

Patent material (Bendu-381)
A composition comprising complex crude drug extracts showing anti-Allergic rhinitis, anti-atopic dermatitis and anti asthma activity

Inhibition of cell damage
Skin protection and antioxidation
Enhancing immunity
Relief of inflammation and itching
High moisturizing function

2. High moisturizing

Fermented oil
High moisturizing without stickiness, cell regeneration,

3. Three NO’s

No-Steroid
No-chemical preservatives
No-Chemical pigment
-- No side effects
Long term use is absolutely safe

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Hyojason Cream and Oil

Cell membrane regeneration, Anti-aging, Anti-inflammation, Relief from itching, Anti-wrinkles
(Functional cosmetic for the middle- to old-aged persons)

Moisturizing is basic

Stabilizing of mast cell
(inflammatory cell) (Bendu381)

Cell membrane regeneration,
Anti-wrinkle (OLGO Oil)
Hyojason Tablet (Hyojason Tablet and Fermented Emu Cream)

Functional health food with whey calcium and NSAIF-Q which are helpful for bones and joints

Product with plant extract complex “NSAIF-Q,” which formal clinical test has been performed successfully

- Maintain bone health
- Maintain functions of nerves and muscles
- Reduction of osteoporosis risk
- Helpful to reduce pain due to its anti-inflammatory effect for degenerative arthritis
Radicare

Natural edible cosmetics with excellent anti-oxidant activity

- Feeling well in your skin after 1-2 weeks of intake
- Anti-aging effect derived from strong anti-oxidant activity
- Suitable for persons from the late thirties whose skin begins to age
- Inhibition of collagen-decomposing enzyme (MMP-1) but increase of collagen synthesis
- Rapid regeneration of damaged skin
- Inhibits melanin-synthesizing enzyme; whitening effect
- In the morning, you can enjoy good make-up

**Patent:** “Functional food composition having anti-oxidative, anti-arthritic and anti-dementia effects” No. 10-0510253 (registered)
“Cosmetic Composition having anti-oxidative and anti-inflammatory effects” No.10-0549661 (registered)
Namgaseyae

Blood flow improvement, Vitality increase, Improvement of andropause symptoms, Natural food without Sildenafil (core compound of Viagra)

Liquid-type food with improving various andropause symptoms, which is prepared using MP119, patent material for the smooth blood circulation, and 20 kinds of natural plant extracts such as Red ginseng, Korean angelica, Maca, *Rubus coreanus* designed for the best physiological result.

- Maintain penile erection through inhibiting PDE-5 enzyme like Sildenafil.
- Even though prompt effect like Viagra can’t be expected, steady intake shall improve distinctly all symptoms of andropause.