Korean Ginseng (Panax Ginseng)

Classification
Araliaceae  ginseng

Botanical name
Panax ginseng C.A.Meyer

The derivation of a word
Pana: all, Axos: treatment
Pan+ax=Panax: a panacea,
a cure-all
Ginseng: Chinese
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What is Ginseng?

- Ginseng is the world’s most powerful adaptogenic herb which brings the body into balance.
- As the body reaches homeostasis its ability to regenerate cells increases and the body’s self healing capacity is maximized.
- The genus name Panax was derived from the Greek words Panacea and Axos for "all-healing".
- It has a remarkable capacity to assist the body in managing stress.
- It has been used for over 2,000 year as the central herb for healing and wellness in the orient.
- For many years most adaptogens were called “ginseng”.
- HOWEVER NOT ALL GINSENG IS THE SAME!
- There are many critical differences such as how and where it is grown and when and how it is processed.
- Most ginseng products are denatured and fractionalized.
Ginseng: How does it work?

Korean Ginseng, processed correctly, is the world’s most powerful adaptogen allowing the body to resist stress and come into homeostatic balance

* The central action mechanism of ginseng had not been known until the intertrepin saponins called ginsenosides were isolated in 1963.
* These major active components, ginsenosides, are a diverse group of steroidal saponins that are oligosaccharides, which demonstrate the ability to target a myriad of tissues, producing an array of pharmacological responses.
* The number of publications and clinical studies on ginseng and ginsenosides has been growing exponentially since the 1970’s there are several thousand studies on Ginseng.
* **Ginseng has been shown consistently to modulate blood pressure, improve metabolism and immune functions**
* Recent studies show that other constituents of Ginseng are also critical to its remarkable efficacy such as Amino Acids, Polysacharides, Polyphenols, minerals and organic Germanium.
* Since ginsenosides and other constituents of ginseng produce effects that are different from one another, and a single ginsenoside initiates multiple actions in the same tissue, the overall pharmacology of ginseng is complex.
* The ability of ginsenosides to independently target multireceptor systems at the plasma membrane level, as well as to activate intracellular steroid receptors, may explain some pharmacological effects.
Korean Ginseng

• Ginseng is the most powerful adaptogenic herb which brings the body into balance.

• As the body reaches homeostasis it is able to regenerate cells and heal itself.

• There have been over 5,000 clinical studies on Ginseng proving its efficacy. The unique active ingredients are saponins called Ginsenosides.

• HOWEVER NOT ALL GINSENG IS THE SAME!

• Korean Ginseng has many more types of Ginsenosides than American, Chinese or Japanese Ginseng.
Why is Live Oak Health Ginseng Superior?

- **Low heat vacuum extracted White Ginseng**
  - Harvests the roots at 4 or 5 years to obtain the maximum volume and balance of ginsenosides. The 6 year root is older, more fibrous with less density and balance.
  - No high heat, not denatured retains all ingredients
  - Roots are not peeled so all rootlets are used
  - 2-3 times more Ginsenosides than Red Ginseng Extract
  - 400-500% more Amino Acid
  - Full range of Vitamins and Organic Germanium

- Doctors though the world have chosen Ilhwa Ginseng for their own use and for patients finding it far superior than other Ginseng

- Ilhwa, staying true to its One Harmony vision, uses the best in modern science and created a new high absorption fermented ginseng extract called GS15-4 via an enzyme fermentation (2 patents approved in 2012)
Superiority of Korean Ginseng vs. American, Chinese + Japanese Ginseng

- **Korean White Ginseng Extract**: 38
- **American Ginseng**: 13
- **Sanchi Ginseng (Chinese)**: 14
- **Chikuseteu Ginseng (Japanese)**: 6

**Saponins**
Pharmacological Function
Smooth Energy Clear Mind Fermented Ginseng
Effect of Korean Ginseng

Effect on Cancer
Effect on Diabetes
Effect on Blood Pressure
Effect on Strengthening vigor
Effect on Stress
Effect on Liver Protection
Effect on Arterioscleosis and High Blood Fat
Effect on Immune function
Fatigue recovery

Effect on Deep Drunkenness
Effects on Brain Function
Effects on Anemia
Effects on Climacteric Hindrances
Effects Against Radioactivity
Effects on Central Nervous System
Immunity ability of HIV
Effects on Stress and Restoration of Fatigue

**Stress**
- Resistant ability in stress
- Restrain control of V-C
- ACTH decrease

**Fatigue**
- Recovery Nutrition
- Full Range of Saponins
- Tiredness
- Powerless
- Fixate
- Attentiveness.

Ginseng can improve the body condition and mental function.
Effect on Strengthening Vigor

Frequency of erectile dysfunction

- USA
- Europe
- Latin A
- Asia

Nourishment
Prevent from Reduction of sexual action
Improve the terminal circulation

The Key for smooth muscle in spongy bodies to relax

EDRF NO Participate

Strengthen the fundamental body force
Production of spermatozoon

Strengthening Vigor

Rb1, Rg1
Effect on Blood Pressure

Blood Pressure

High
140/90

Low
100/

Korean Ginseng

Lowering
Rb, Rc

Elevating
Rg

Intake of ginseng with high concentration saponin obtains the maximum efficacy

Normalize

Relaxing vein smooth muscle
Reduce Ca++ flowing into heart cell
Endothelial cells ameliorate dysfunction balance of an autonomic nerve
Effects on Stress and Restoration of Fatigue

**Stress**
- Resistant ability in stress
- Restrain control of V-C
- ACTH decrease

**Fatigue**
- Recovery Nutrition
- Tiredness
- Powerless
- Fixate
- Attentiveness

**Saponins**
- ACTH hormone increase in cyclic AMP

Ginseng can improve the body condition and mental function
**Effects on central nervous system, Environmental hormone, and AIDS**

Ginseng

- **Excitatory Stimulation**
  - small
  - Rg1

- **Calmative Inhibition**
  - large
  - Rb, Rc

It can ameliorate mental symptoms of uneasiness, neurosis, insomnia, depression and post partum.

- Prevent and treat the testicle toxicity caused by the dioxine.
- Maintain the immunity ability of HIV infecting patients.

**Environmental hormones**

**AIDS**
Live Oak Health
Fermented Ginseng
Far superior to standard Korean Red Ginseng
Main vitamins in LOH white ginseng vs. no vitamins in Red Ginseng

Trace Vitamins

- folic acid
- niacin
- ascorbic acid
- biotin
- pantothenic acid
- riboflavin
Inorganic component comparison of LOH Ginseng vs Red Ginseng

Critical organic mineral Germanium is not existing in Red Ginseng.
Live Oak Health
Fermented Ginseng
Far Superior Absorption
15 times more
4 times faster
5 times more consistent
# Method of Study

<table>
<thead>
<tr>
<th>Subject</th>
<th>Clinical test of Absorption rate of GinST 15 Extract</th>
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</thead>
<tbody>
<tr>
<td>Person in Charge</td>
<td>Kyunghee Univ. Clinical Pharmacology, Professor Mr. Sung-bin, Lim</td>
</tr>
<tr>
<td>Subjects</td>
<td>Age 20~40 year-old, Male, 24 Test subjects who passed pre health examination</td>
</tr>
<tr>
<td>Testing Design</td>
<td>Random Arrangement, 2×2 Crossing Test, Blood Collected 14 Times: 0, 0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 12, 24 hr</td>
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<tr>
<td>Evaluation</td>
<td>Measuring Elements: AUC, Density of IH-901 in Blood(max), Time for Maximum density of IH-901(Tmax)</td>
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<td>Method of Analysis: LC–MS/MS</td>
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CLINICAL TEST RESULTS OF OUR FERMENTED GINSENG VS STANDARD GINSENG

IH-901 Absorption Quantity

Fermented Ginseng Extract: 2,083.09
Ginseng Extract: 134.05

15 Times More

AUC (ng/ml)

IH-901 Maximum Density in Blood

Ginseng Extract
Fermented Ginseng Extract

27 Times Higher

IH-901 Absorption Speed

Ginseng Extract
Fermented Ginseng Extract

4 Times Faster

Tmax

Cmax

ng/ml

Hour
Individual Absorption Comparison

Ginseng Extract

GinST 15

Density of IH-901 in Blood
The present invention relates to a method for preparing a fermented ginseng concentrate. The method involves subjecting ginseng to an extraction with a solvent to obtain a ginseng extract. Next, pectinase and beta-galactosidase are added to the ginseng extract under conditions effective to ferment the ginseng extract. The fermented extract is then concentrated to produce a fermented ginseng concentrate. The method may further involve drying the fermented ginseng concentrate to obtain fermented ginseng powder. Combinations of the invention ginseng materials with other active and/or inactive materials are also disclosed.

6 Claims, 3 Drawing Sheets