

Korean Ginseng(Panax Ginseng)

Classification

Araliaceae ginseng

Botanical name

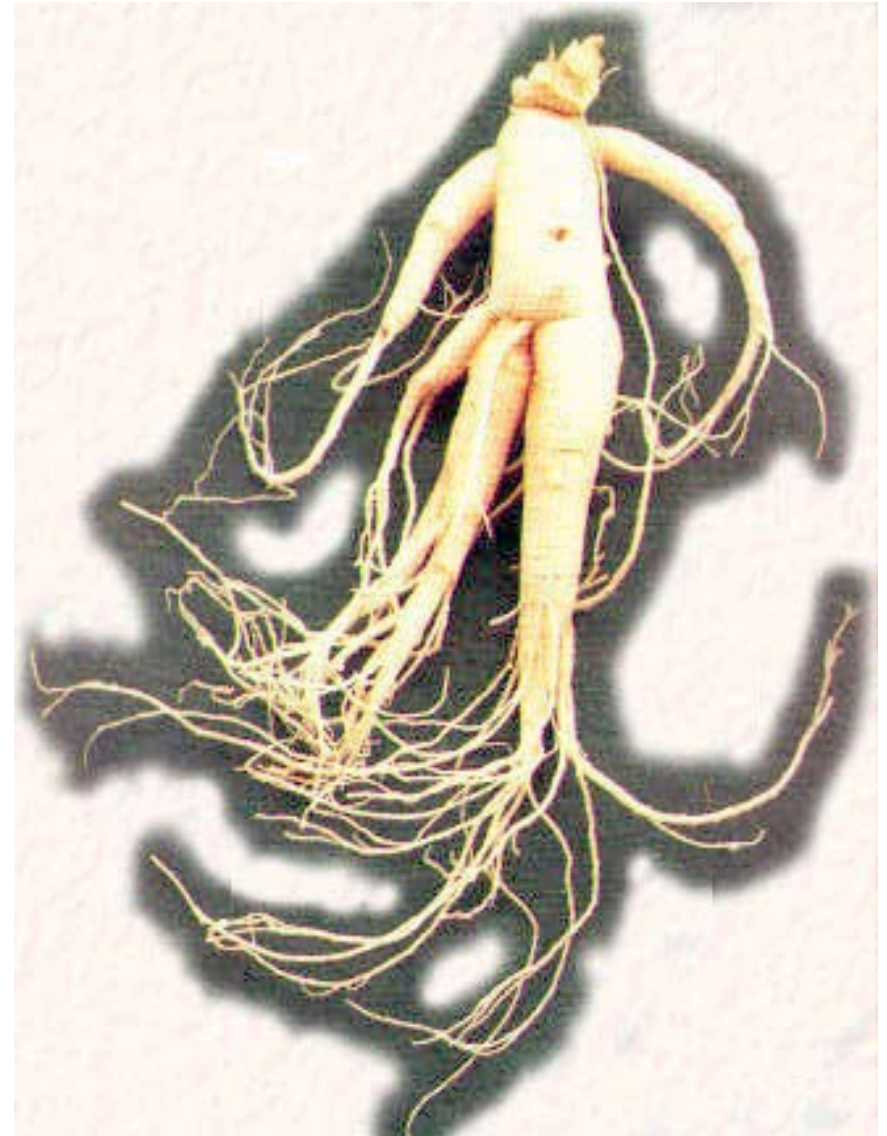
Panax ginseng C.A.Meyer

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 Axios 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, Polysaccharides, Polyphenols, minerrals and organic Germanium.
- Since ginsenosides and other constituents of ginseng produce effects that are different rom 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.

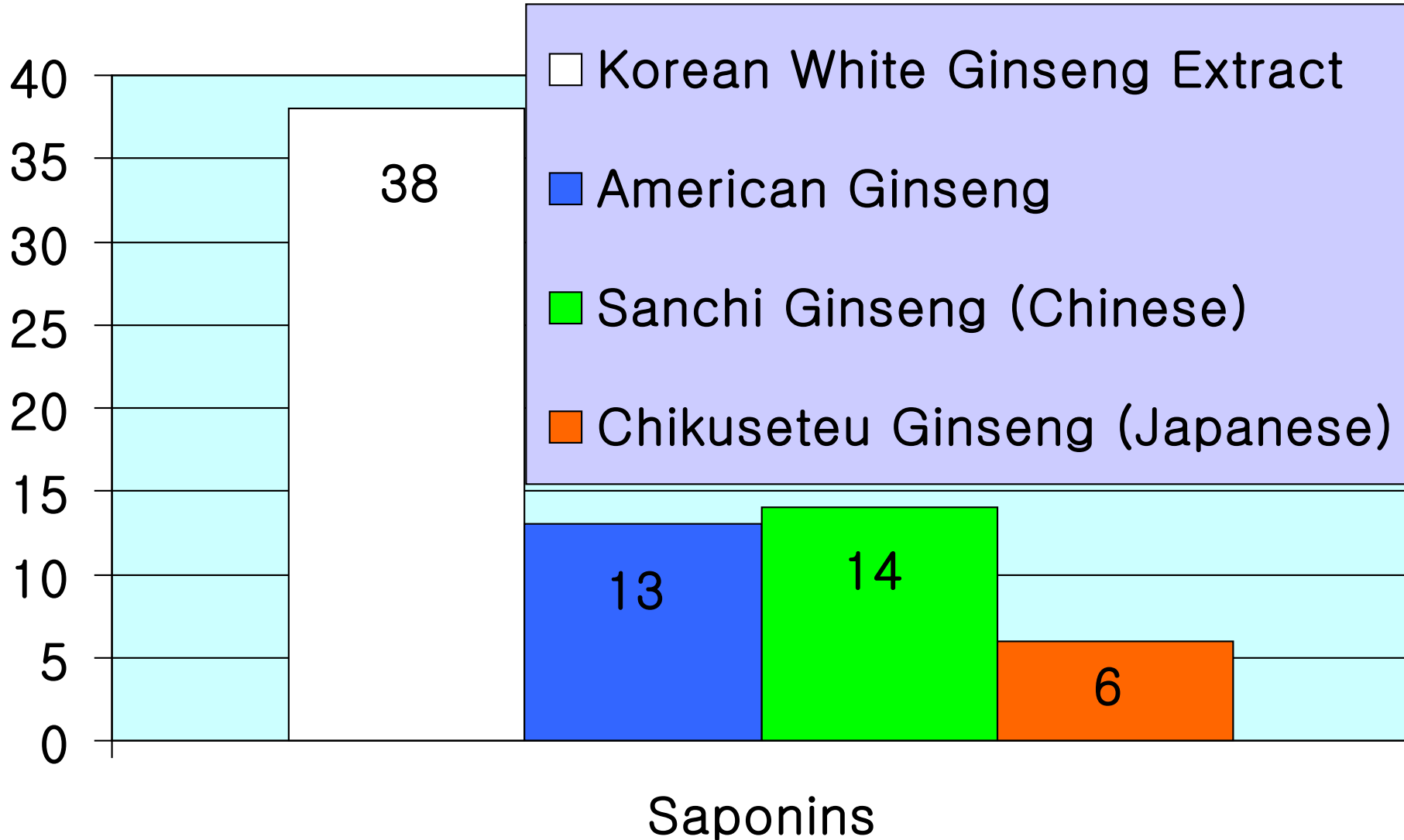
Korean Ginseng

- **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



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 Arteriosclerosis 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

Full Range of Saponins

ACTH hormone
increase in cyclic AMO

Fatigue

Recovery
Nutrition

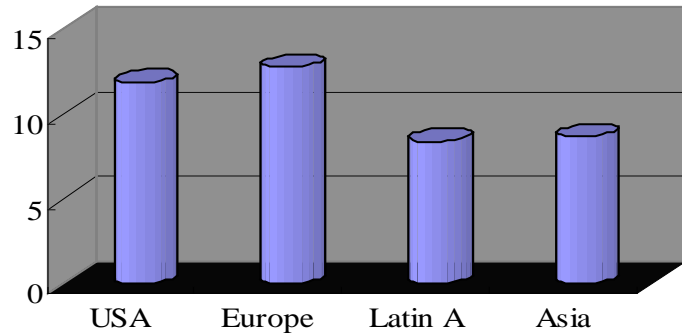
Full Range of Saponins

Tiredness
Powerless
Fixate
Attentiveness.

Ginseng can improve the body condition and mental function

Effect on Strengthening Vigor

Frequency of erectile dysfunction



Nourishment
Prevent from Reduction of sexual action
Improve the terminal circulation

Rb1, Rg1

**The Key for smooth muscle
in spongy bodies to relax**

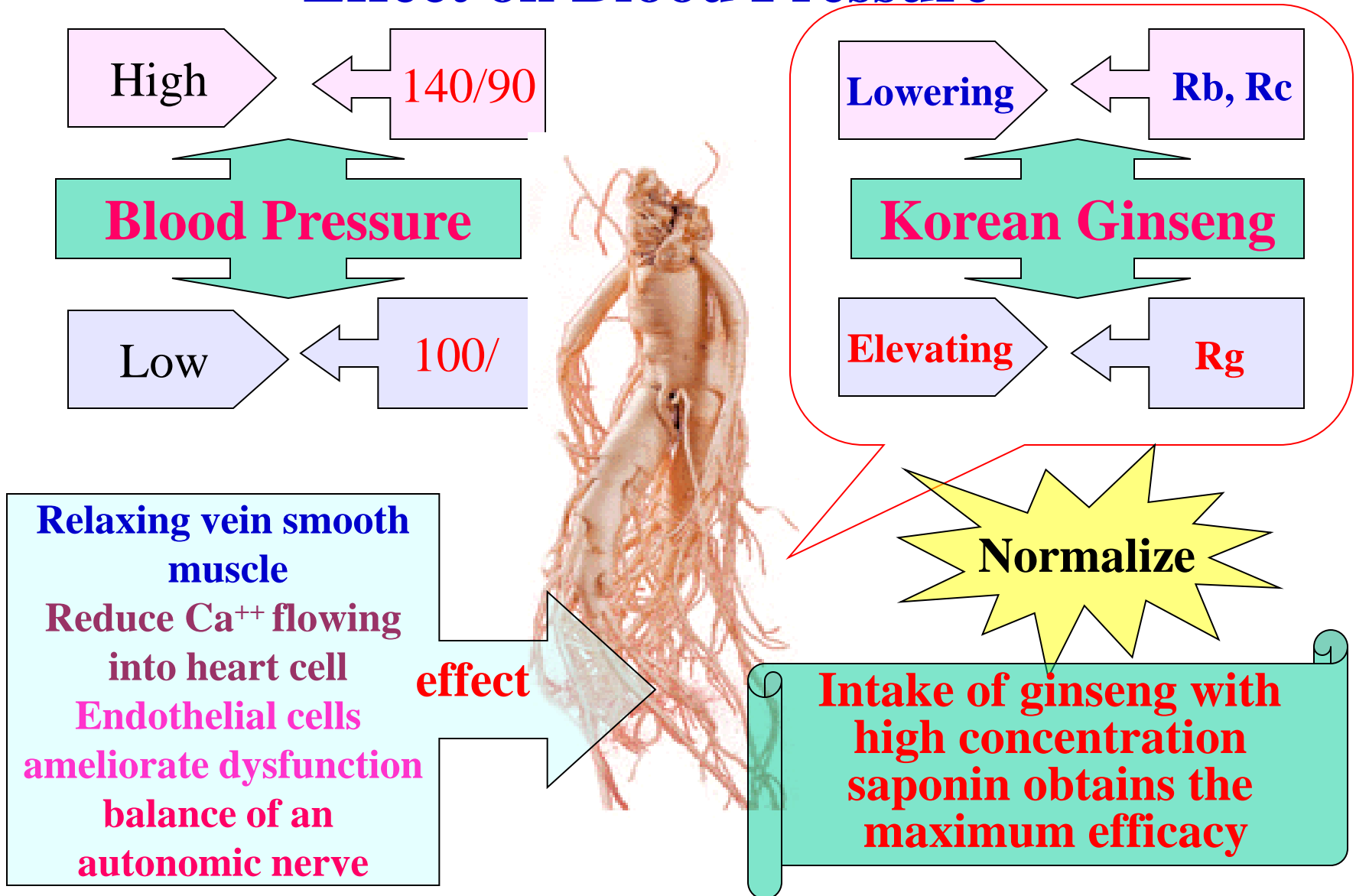
EDRF NO Participate

**Strengthen the fundamental
body force
Production of spermatozoon**

**Strengthening
Vigor**



Effect on Blood Pressure



Effects on Stress and Restoration of Fatigue

Stress

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

Saponins

ACTH hormone
increase in cyclic AMP



Fatigue

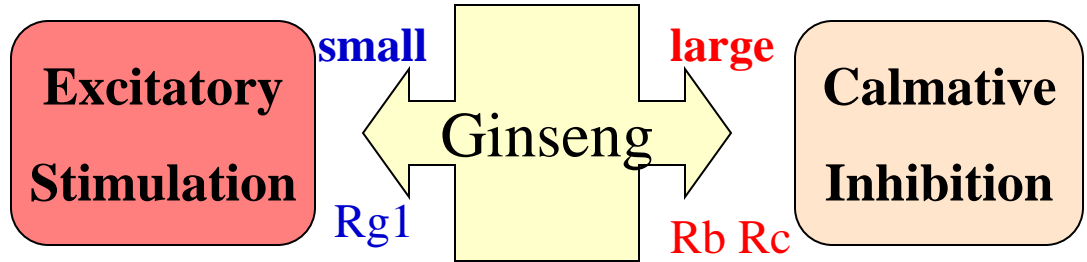
Recovery
Nutrition

Saponins

Tiredness
Powerless
Fixate
Attentiveness.

Ginseng can improve the body condition and mental function

Effects on central nervous system, Environmental hormone, and AIDS



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

Prevent and treat the testicle toxicity caused by the dioxine

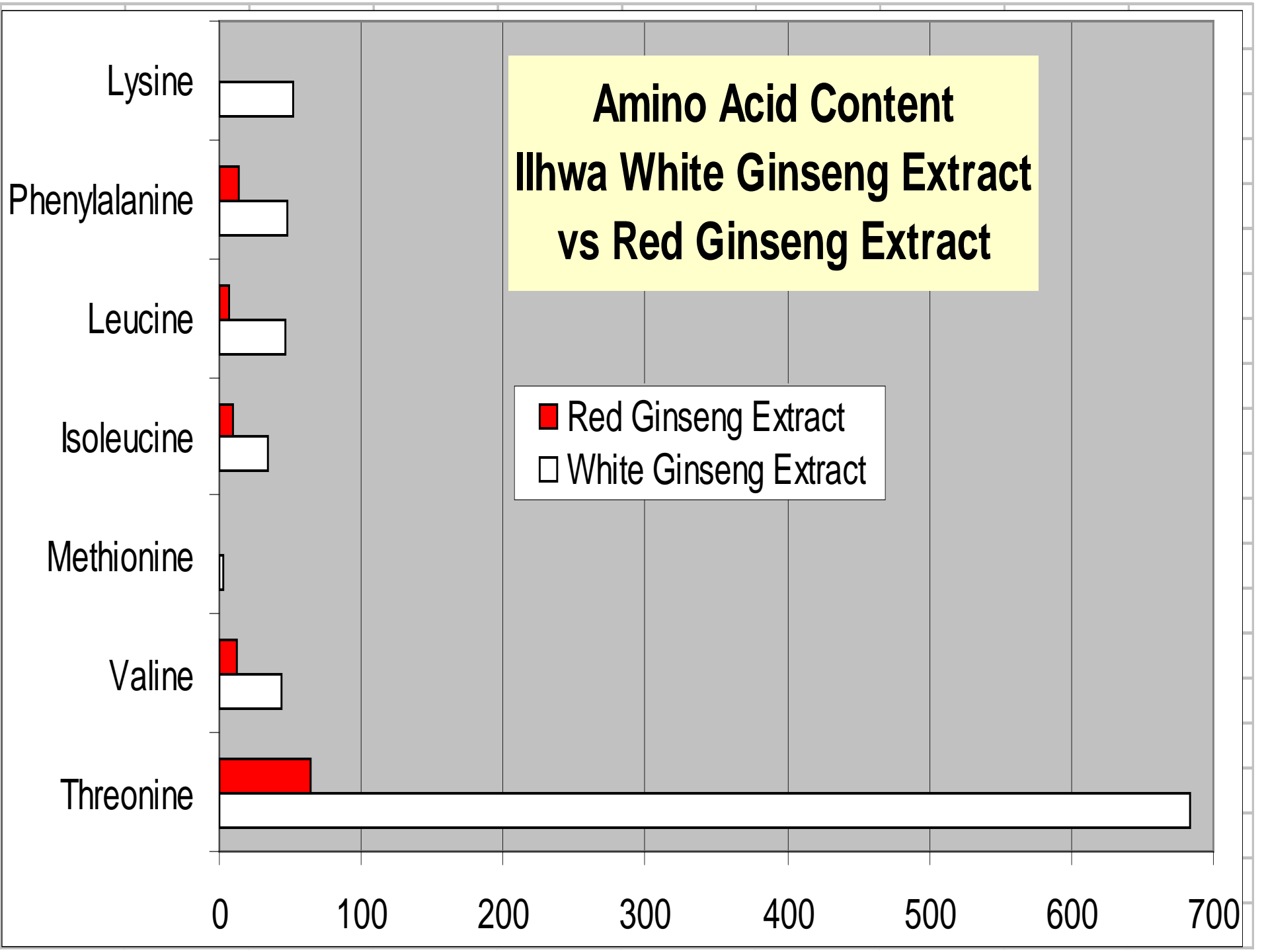
Maintain the immunity ability of HIV infecting patients

Environmental hormones

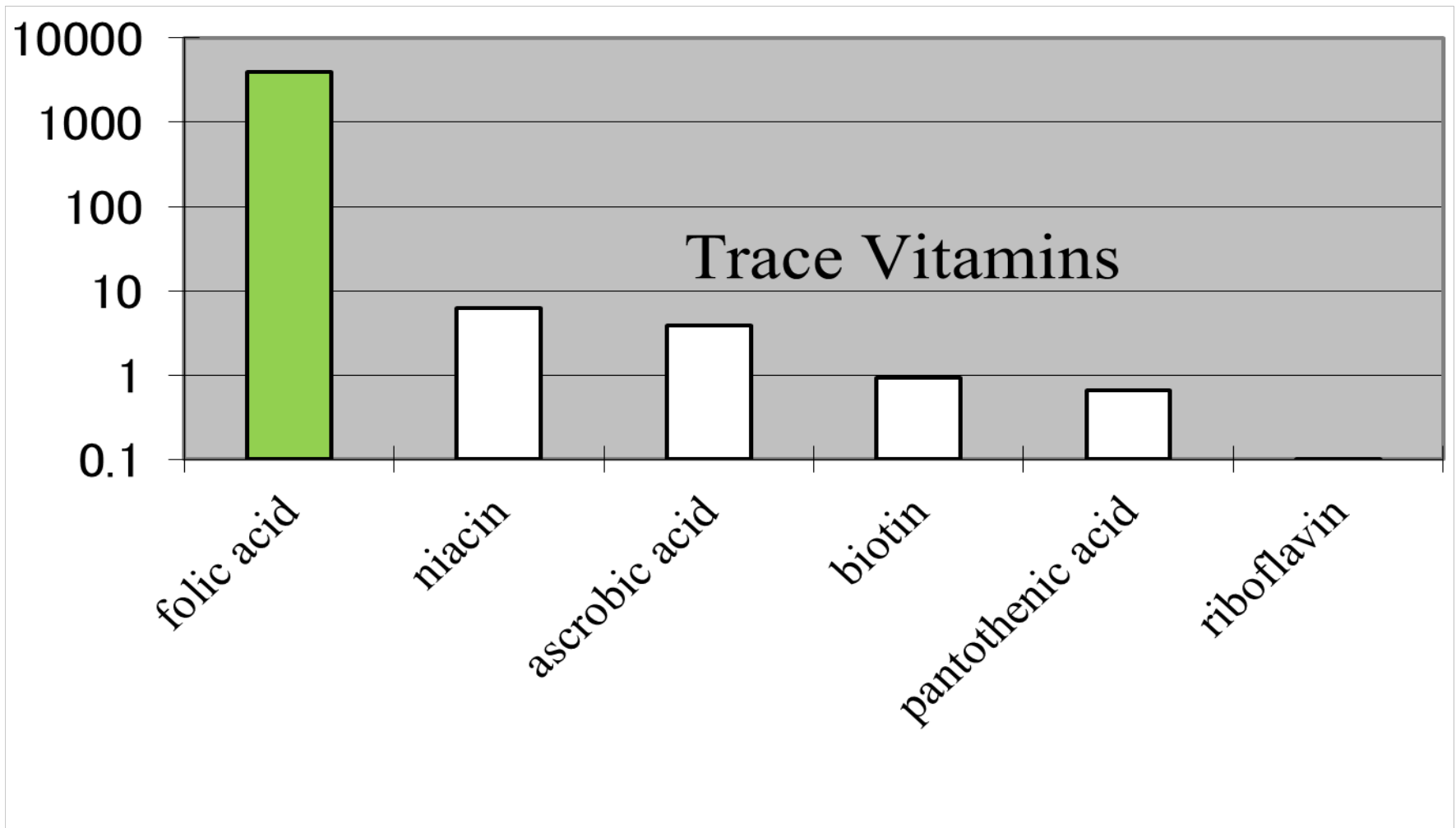
AIDS

**Live Oak Health
Fermented Ginseng**

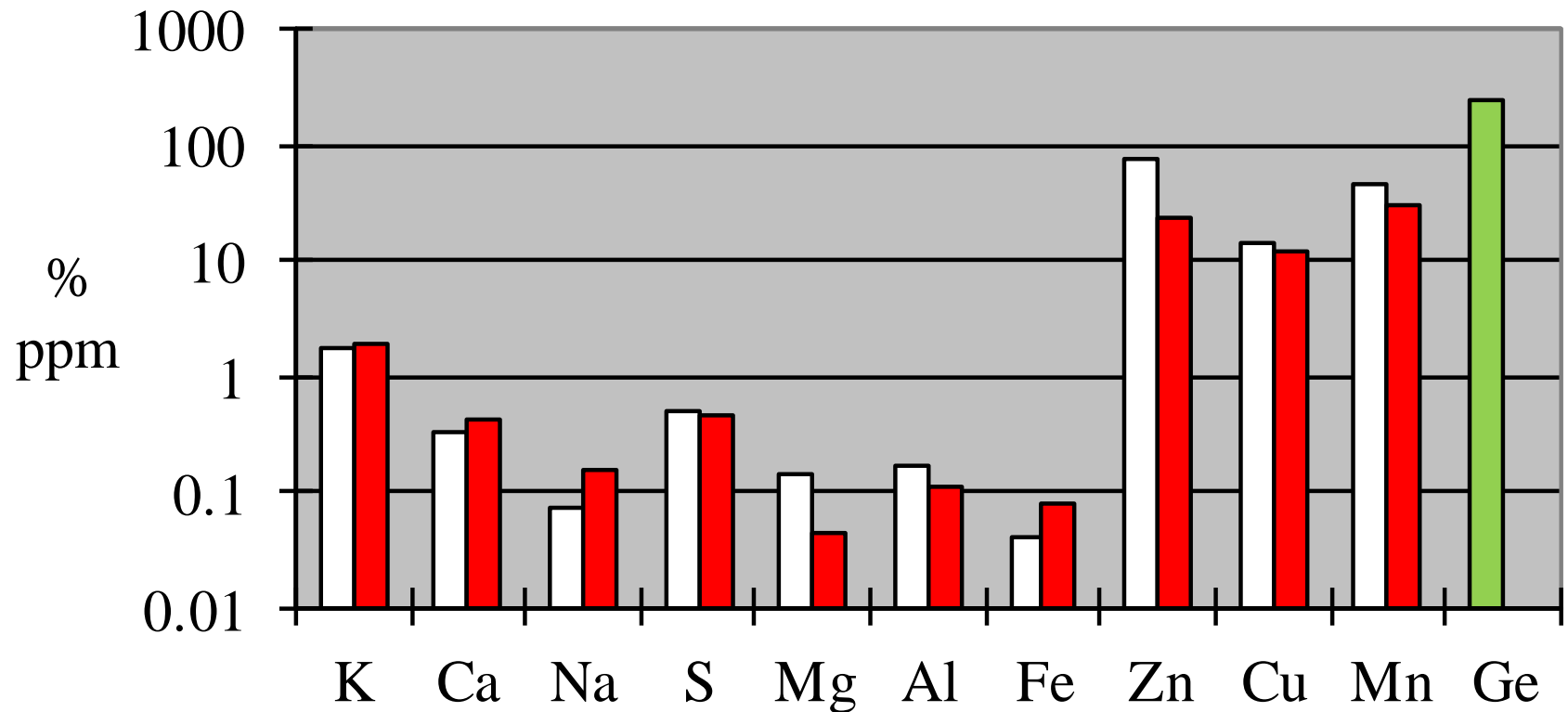
**Far superior to standard
Korean Red Ginseng**



Main vitamins in LOH white ginseng vs. no vitamins in Red Ginseng

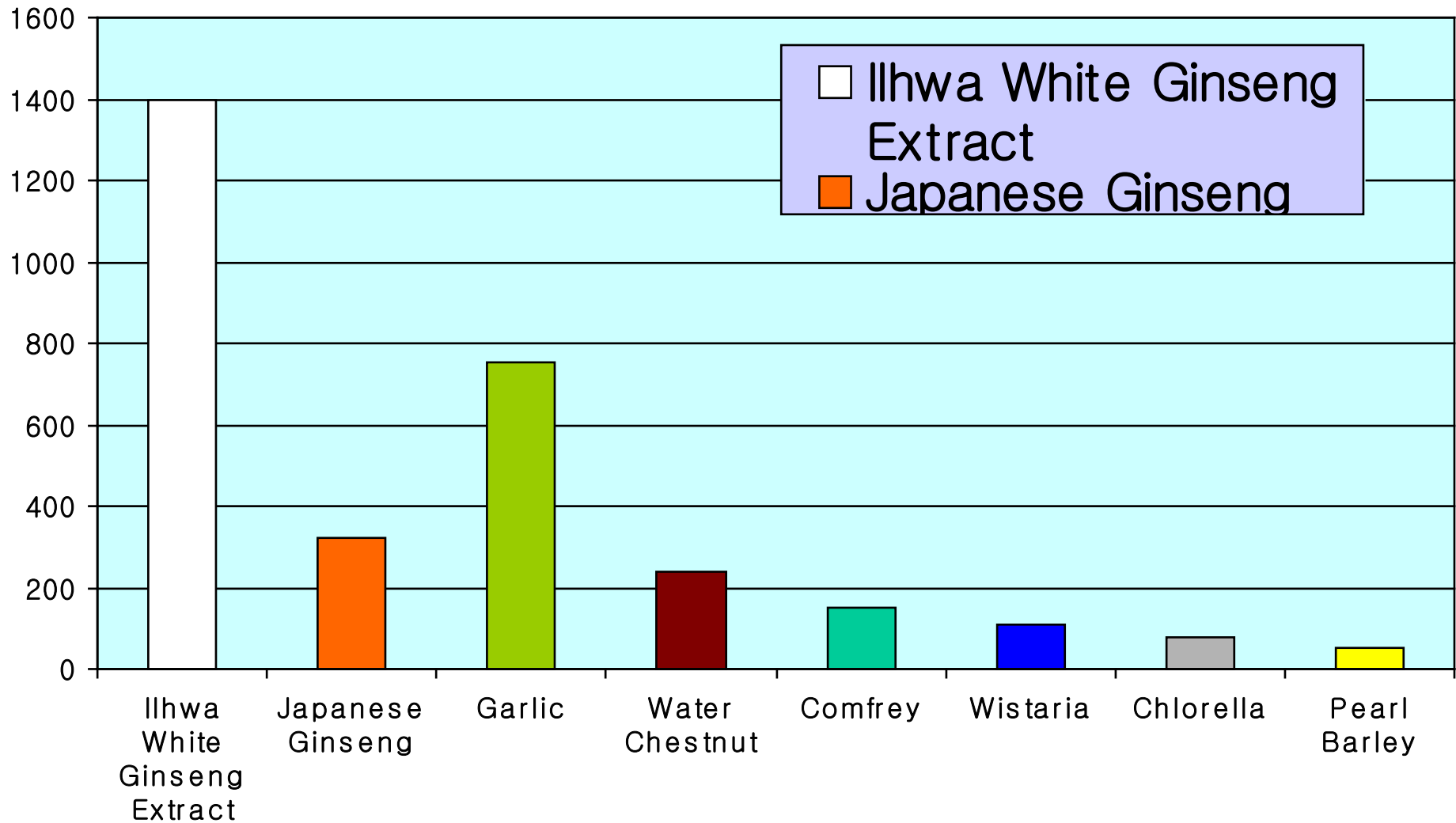


Inorganic component comparison of LOH Ginseng vs Red Ginseng



Critical organic mineral Germanium
is not existing in Red Ginseng

Germanium Content



Live Oak Health Fermented Ginseng

**Far Superior Absorption
15 times more**

4 times faster

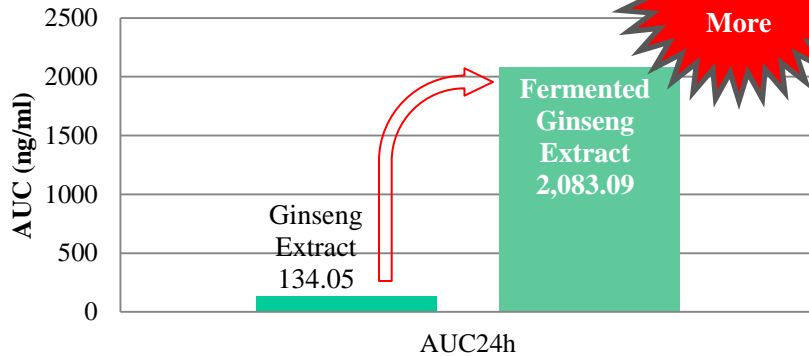
5 times more consistent

Method of Study

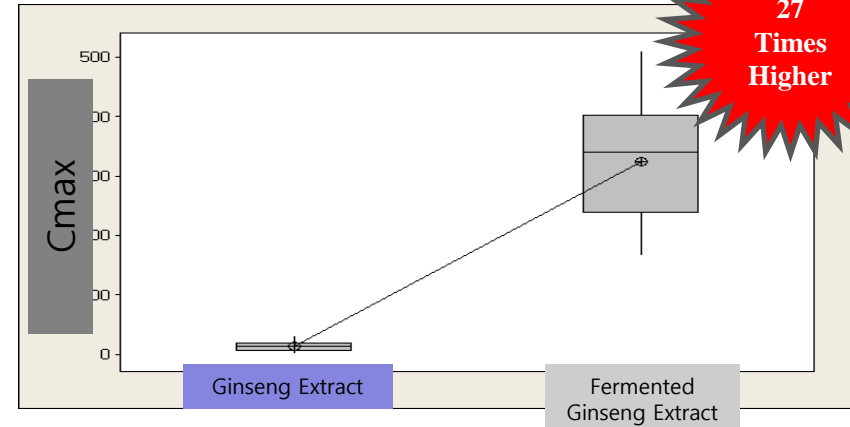
Subject	Clinical test of Absorption rate of GinST 15 Extract
Person in Charge	Kyunghee Univ. Clinical Pharmacology, Professor Mr. Sung-bin, Lim
Subjects	Age 20~40 year-old, Male, 24 Test subjects who passed pre health examination
Testing Design	Random Arrangement, 2×2 Crossing Test, Blood Collected 14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

CLINICAL TEST RESULTS OF OUR FERMENTED GINSENG VS STANDARD GINSENG

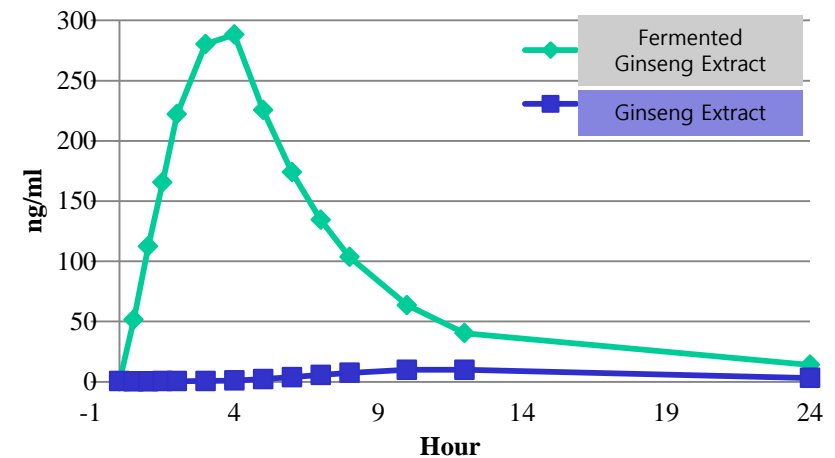
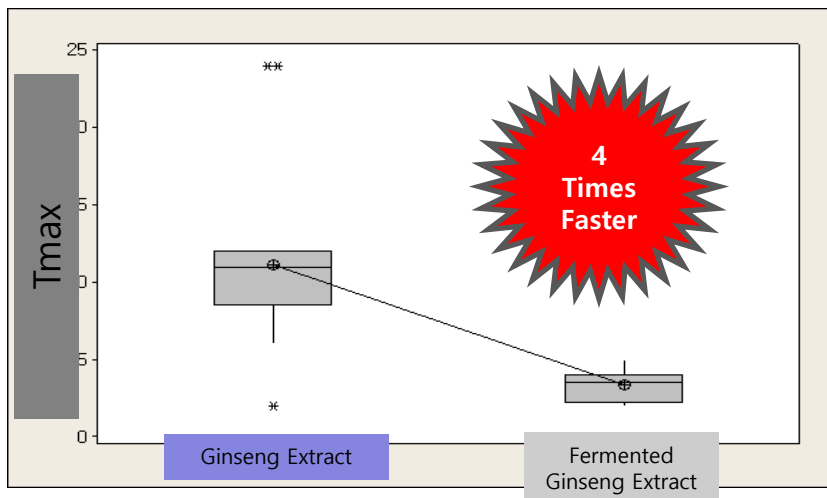
IH-901 Absorption Quantity



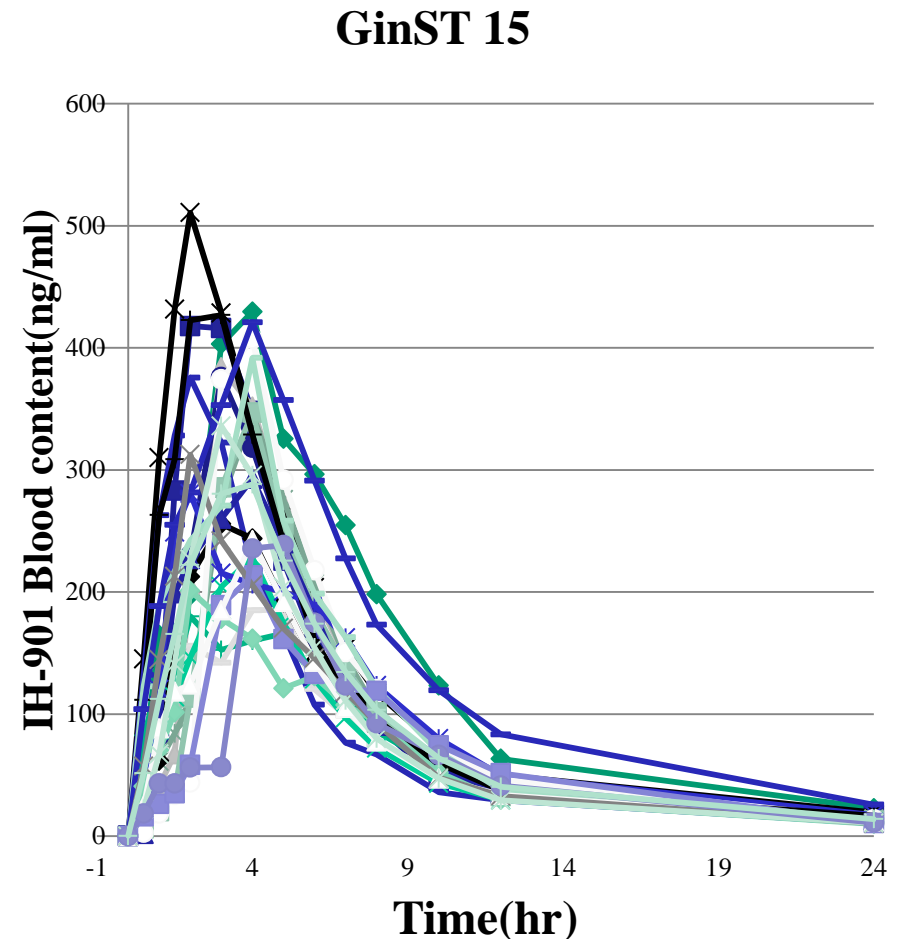
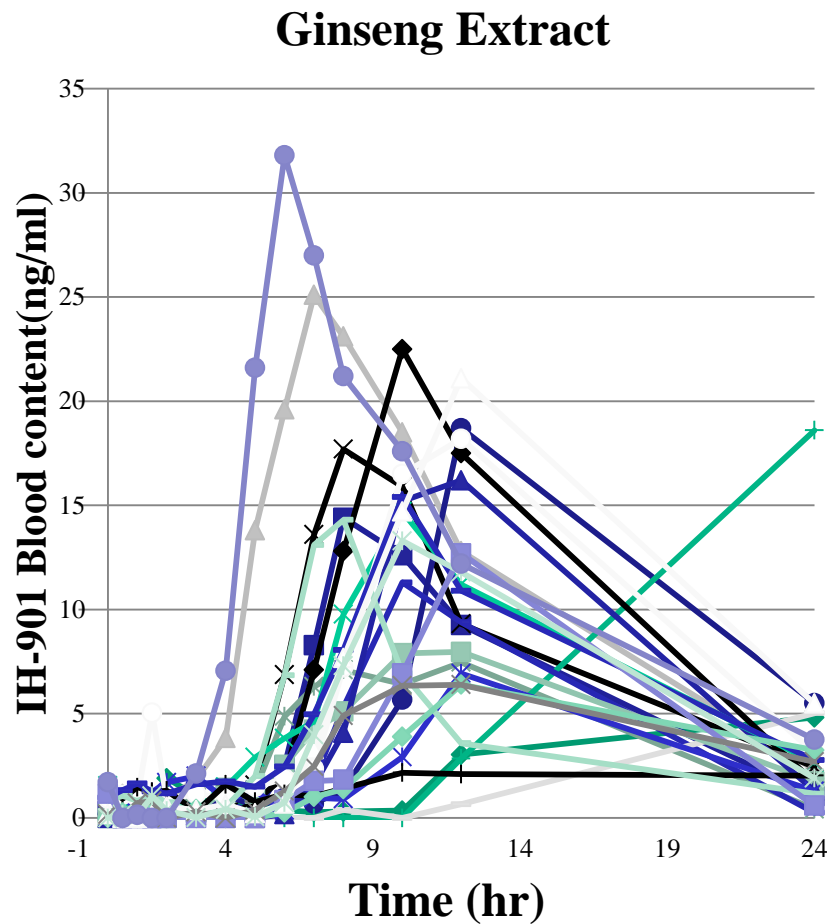
IH-901 Maximum Density in Blood



IH-901 Absorption Speed



Individual Absorption Comparison



Density of IH-901 in Blood



US008574639B2

c12) **United States Patent****Konn et al.**

- (54) FERMENTED GINSENG CONCENTRATE HAVING IH-901
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- (73) Assignee: ILHWA Co., Ltd., Lake Worth, FL (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 200 days.

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- (22) Filed: Aug. 17, 2010
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- (52) U.S. CL. A61K 36/00 (2006.01)
- (58) Field of Classification Search USPC 424/728; 424/725
- (56) See application file for complete search history.

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(10) Patent No.: **US 8,574,639 B2**

(45) Date of Patent: ***Nov. 5, 2013**

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(Continued)

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ABSTRACT

The present invention relates to a method for preparing a fermented ginseng concentrate. The method first 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

Analysis of Each Individual (C max)