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PLANT STORY



Red ginseng is a representative medicinal herb in Traditional Korean Medicine and has been used for thousands of years. The name of red ginseng is from the color that it takes on during a special preservation method that involves being steamed or sun dried. In Traditional Oriental Medicine, red ginseng is used for many purposes including promoting yang energy, improving circulation and in restoring balance and strength.



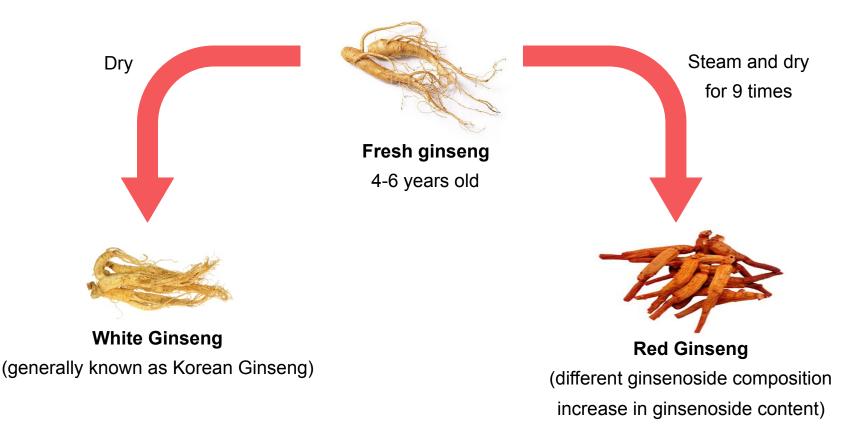
PLANT STORY



Scientific research has indicated *Panax ginseng* to possess various pharmacological properties such as anti-diabetic, anti-oxidant, anti-carcinogenic, anti-aging and anti-inflammatory actions. One of the main components of *P. ginseng* are ginsenosides, which are a class of steroid glycosides. In addition to these compounds are the triterpene saponins which are biologically active compounds with anti-inflammatory and anti-wrinkle actions.



WHITE GINSENG VS. RED GINSENG





WHITE GINSENG VS. RED GINSENG - GINSENOSIDES

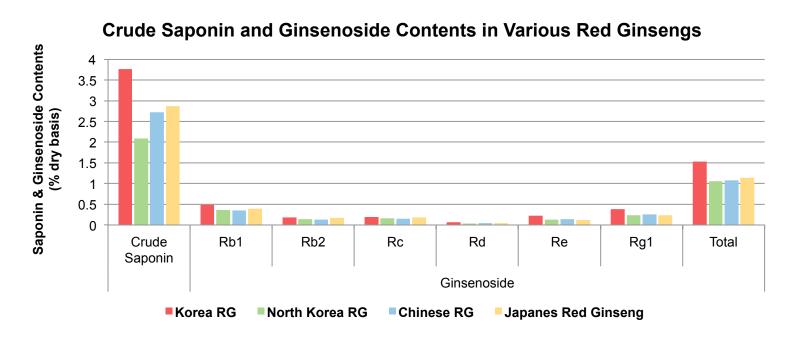
Ginsenosides	Ginsenosides	Ginsenosdies
in Common	in White Ginseng	in Red Ginseng
Ro, Ra1, Ra2, Ra3, Rb1, Rb2, Rb3, Rc, Rd, Re, Rf, Rg1, Rg2, Rg3, Rh1, R1	Rb1, Rb2, Rc, Rd, R1, R2	Rg2, Rg3, Rg5, Rh1, Rh2, Rk1, Rf2, Rs1, Rs2, Rs3, Rs4, R4, Rh4, Rg6, F4, etc.

The comparative understanding between Red Ginseng and White Ginsengs processed ginseng (Panax ginseng C. A. Meyer), Ki-Yeul Nam, J Ginseng Res, 2005, 29(1), p.1-18



KOREAN RED GINSENG VS. OTHERS

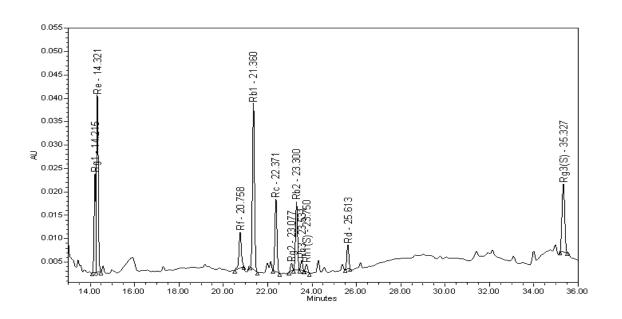
- GINSENOSIDES



Comparison of the content of saponin and mineral component in Korean Red Ginseng and other Red Ginseng, Lee et al., J Ginseng Res, 2002, 26(4), p.196-201



GINSENOSIDES IN RED GINSENG ACTIVE-R



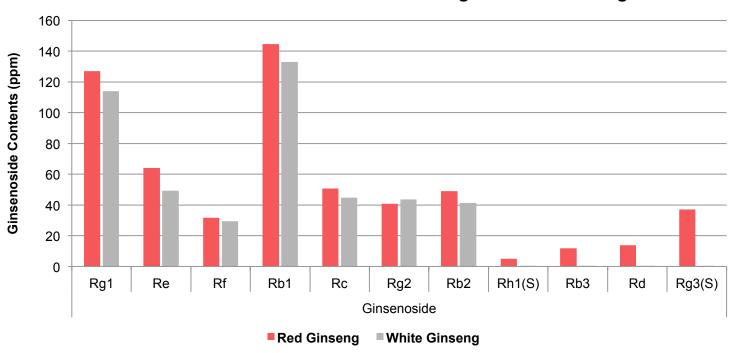
Component Results								
	Name	RT	Area	Height	Amount	Units		
1	Rq1	14.215	112229	20896	33.748	ppm		
2	Re	14.321	196845	37764	64.692	ppm		
3	Rf	20.758	56784	7669	18.453	ppm		
4	Rb1	21.360	229497	35681	73.720	ppm		
5	Rc	22.371	102877	15531	40.468	ppm		
6	Rq2	23.077	9907	1623	3.135	ppm		
7	Rb2	23.300	93035	14498	35.264	ppm		
8	Rb3	23.531	12051	2079	3.574	ppm		
9	Rh1(S)	23.750	10212	1526	2.468	ppm		
10	Вч	25 613	30880	5063	8.260	nnm		



WHITE GINSENG VS. RED GINSENG

- GINSENOSIDES

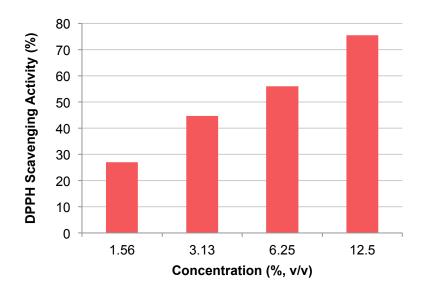
Ginsenoside Contents in White Ginseng and Red Ginseng





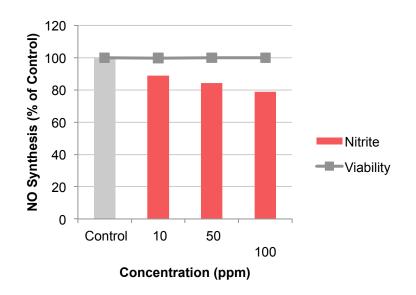
IN VITRO EVALUATION





Anti-inflammatory Effect

Nitrite Synthesis Inhibition in Macrophages (RAW 264.7)



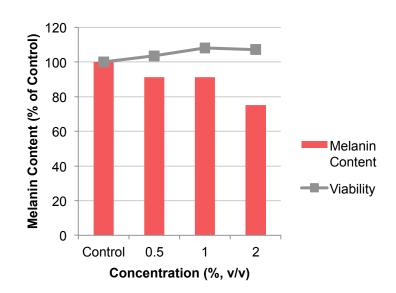


IN VITRO EVALUATION



Skin Brightening Effect

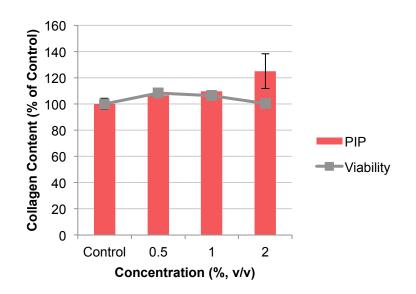
Melanin Synthesis Inhibition in Melanocytes





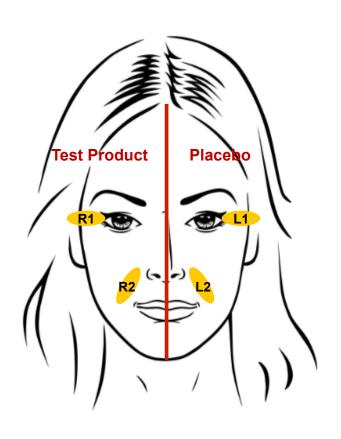
Anti-wrinkle Effect

Collagen Synthesis Activity in Fibroblasts





IN VIVO EVALUATION: ANTI-WRINKLE



Target site: R1, L1 - Canthus

R2, L2 - Nasolabial folds

- Subjects: 21 females aged between 45 to 65 years old
- Test item: Cream with 2% Red Ginseng Active-R
- Application: Twice a day for 8 weeks
- Test instrument:
 - Elasticity: MPA 580 (CK Electronic GmbH, Germany)
 - Wrinkle: SILFLO (CuDerm, USA),

Visioline VL650 (CK Electronic GmbH, Germany)

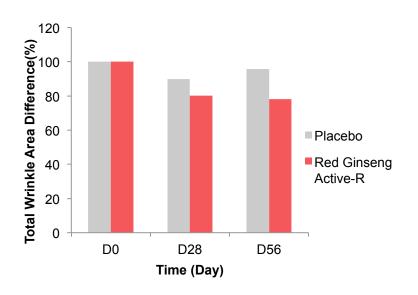
• Dermatologist's evaluation (Scoring reference):



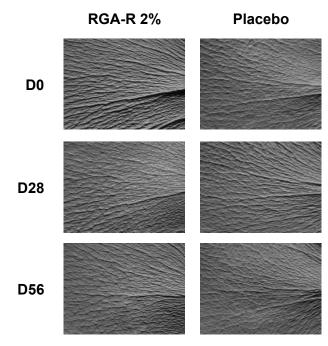


IN VIVO EVALUATION: ANTI-WRINKLE











PRODUCT INFORMATION

Product Name: Red Ginseng Active-R(PD)



✓ INCI Name: Panax Ginseng Root Extract

Dosage: 1 - 3%

Formulation: Add to the formulation when the temperature is lower than 55°C.

Recommended to add after the cooling process.

Storage: Avoid direct light or UV. Keep it in a cool and dry area.

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