

PLANOXIA-RG

- For promotion of hair growth -

Applicable products of PLANOXIA-RG

Hair Care; Hair Conditioner, Shampoo, Hair Rinse, etc



What is PLANOXIA-RG ?

Hair loss is a distressing condition for an increasing number of men and women. It is of great importance; therefore, to develop new therapies for the treatment of hair loss.

PLANOXIA-RG is a Korean Red Ginseng extract as a hair growth agent, based on its abilities to induced earlier telogen to anagen conversion than did the minoxidil and negative control.

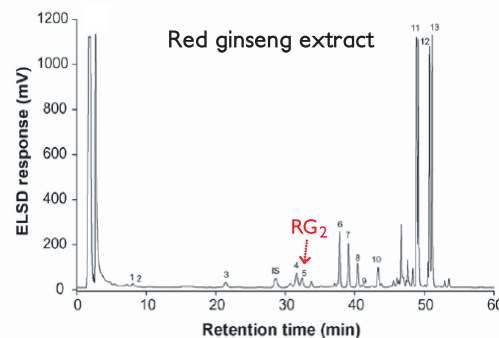
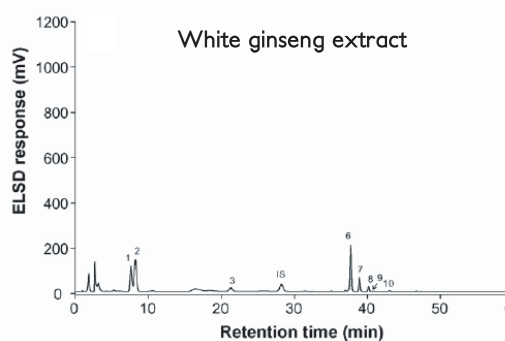
Main Ingredients



Common name	Korean red ginseng, ginseng steamed red
Latin name	Panax ginseng
Main ingredients	β -sitosterol, ginsenosides, Campesterol, Vitamin B1, B2, B3, B5, C
Biological effects	Anti-oxidant effect, Anti-tumor effect, Wound healing effect

Ginseng is one of the most famous herbal medicines used as a dietary supplement in recent years. There are various types of commercial ginseng products, the most popular being red ginseng.

Representative HPLC chromatograms of white ginseng extract and red ginseng extracts.



Ref; Journal of Pharmaceutical and Biomedical Analysis 45 (2007) 164-170

Red ginseng contains some distinct constituents such as the ginsenosides Rg2, Rg3, Rg5, and Rk1, which are not found in white ginseng

SPECIFICATION

INCI Name

Color

pH

Specific gravity

Preservative

Shelf life

Dosage

Water/ Butylene glycol/Panax ginseng Root Extract

Colorless to light yellow-brown Liquid

4.00-7.00

0.980-1.100

Non-added

2 years

0.5-2.0%

Main Biological Effects for Cosmetics

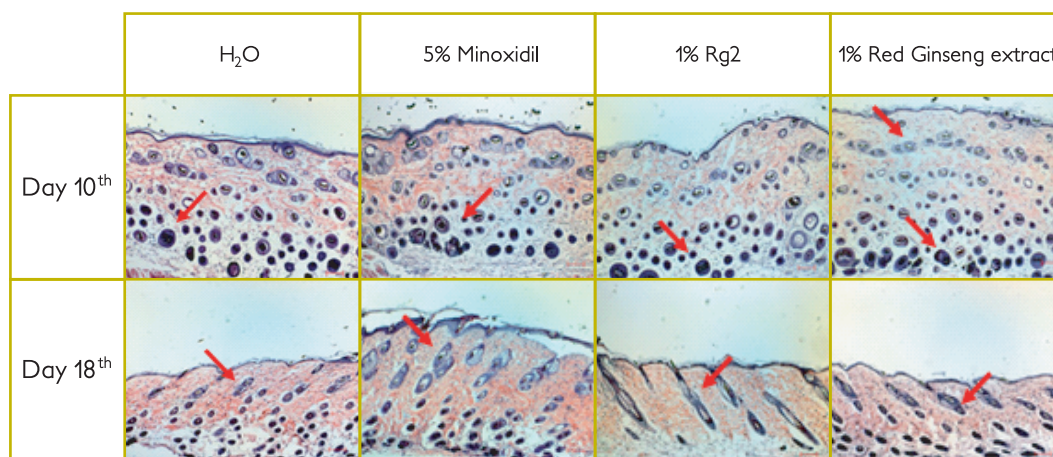
- Hair growth effect of Red ginseng (RG-ext) or white ginseng (WG-ext) on organ culture of vibrissal hair follicles

Sample	Conc (μg/ml)	After 48h		After 72h	
		Length(μm)	Activation(%)	Length(μm)	Activation(%)
Control	-	476 ± 34.8	-	625 ± 48.7	-
RG-ext	20	522.2 ± 26.1	9.7	663.0 ± 31.1	5.9
	50	559.3 ± 21.8	17.5	746.3 ± 29.5	19.2
Control		574.9 ± 32.2	-	728.4 ± 55.1	-
WG-ext	20	539.7 ± 38.3	Non active	732.2 ± 62.3	4.1
	50	628.4 ± 47.320	9.2	885.7 ± 51.5	21.1

(Ref; Phytother Res. 2003 Aug;17(7):797-800)

The results presented here indicated that Panax ginseng possesses hair growth promoting activity in vibrissal hair follicle organ culture model.

- Hair growth promoting effects of the red ginseng extract



Red ginseng extract and Rg2 induced earlier telogen to anagen conversion than did the minoxidil and negative control. Immunohistochemistry studies showed that **the red ginseng extract and Rg2 markedly increase the depth and size of the hair follicles**, as compared to the negative control(H₂O) and minoxidil