

BLACK SERIES
BLACK GINSENG



Raw Material: Ginseng from Geumsan, Republic of Korea

Active ingredient: Ginsenosides (F2, Rg3, Compound K)

Black ginseng is made through the iterative process of steaming and drying for nine times. Black ginseng has higher saponin contents than red ginseng, especially Rg3, which is very effective ginsenoside for anti-cancer effect and anti-inflammatory effect.

MARINE BIOTECHNOLOGY PRODUCTS

- + Bioconversion Technology**
- + Anti-wrinkle**
- + Anti-inflammation**
- + Anti-aging**

Color change by ginseng manufacturing process

The color of ginseng is getting darker by the manufacturing process.



Red



Red/Black



Black



CATEGORY NAME

Black Series

PRODUCT NAME

Black Ginseng

INCI NAME

Panax ginseng root extract

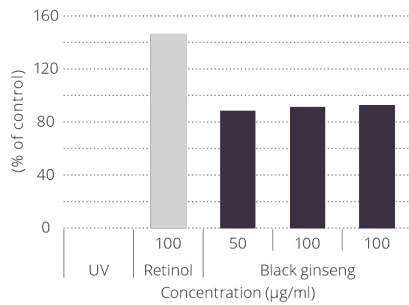
SOLUBILITY

Water soluble

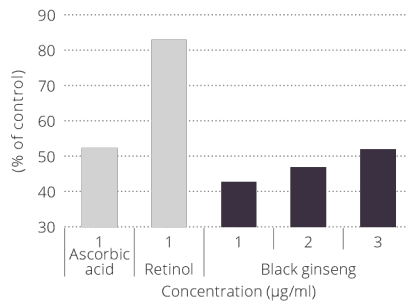
Anti-Wrinkle

The inhibitory effect of collagenase and total MMP-1 activity by Black ginseng.

Inhibition of total MMP-1



Inhibition of Collagenase Activity

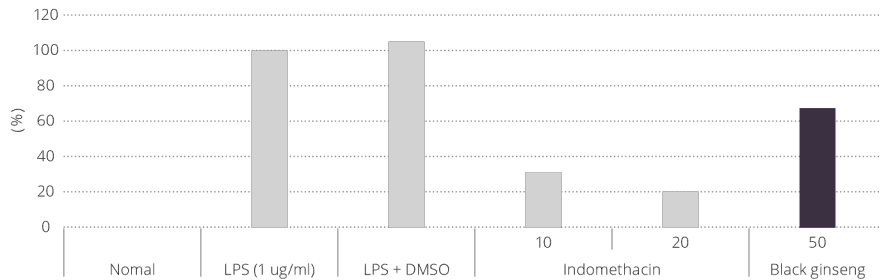


- Decolorization
- Deodorization
- Desalination
- Fermentation
- Low molecular
- Low particle size
- 9x steaming & drying

Anti-inflammation

The Black ginseng reduces NO (Nitric oxide) and cytokine (IL-6) released when animal cells begin immune response.

NO production



IL-6 release

