BAKUMONDOU EXTRACT BGTM



Oleo & Speciality Chemicals Div.

New Functional Plant Extract for Skin Moisturizer

- BAKUMONDOU (herbal medicine name) is a root of Ophiopogon japonicus (Ker-Gawler). Plants with long underground stolons, roots tuberous; leaves many, rather rigid, to 15 inches long, about 1/8 inch wide, dark green, commonly curved; flowers light lilac to white, in a short, fewflowered raceme; fruit blue, size of a pea. An excellent sodforming plant.
- BAKUMONDOU EXTRACT is obtained by extracting with 30% 1,3-Butylene glycol from Ophiopogon japonicus (Ker-Gawler) or congener plants.





1 Characteristic

New Concept (Our original ingredient)

BAKUMONDOU EXTRACT BG enhances the activity of arginase, and increases the production of natural moisturizing factor "**UREA**" by keratinocyte. It has the potential to hydrate the skin from both the outside and the inside.

Contain Some Useful Components

BAKUMONDOU contains steroid saponin (ophiopogonin), homoisoflavonoid (ophiopogonone), saccharide (sucrose, glucose, fructose), polysaccharide.

Beneficial Effects of BAKUMONDOU (as a Chinese medicine)
Anti-inflammatory, antiallergic, antihypertension, antitumor, antitussive



Chinese medicine: BAKUMONDOU:

2 Composition / Specification

Composition

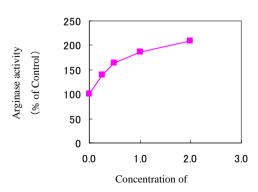
INCI Names	CAS No.	Content
OPHIOPOGON JAPONICUS ROOT EXTRACT	952500-62-8	1.4%
BUTYLENE GLYCOL	107-88-0	29.6%
WATER	7732-18-5	69.0%

Specification

Items	Specifications
Description	Light yellow to yellow liquid , Faint characteristic odor
Identification (Saccharide)	A red to deep red color develops
рН	4.5 – 6.5
Purity (1) Heavy metals	Max. 20 ppm
Purity (2)Arsenic	Max. 2 ppm
Residue on evaporation	0.8 – 2.0 w/v%)

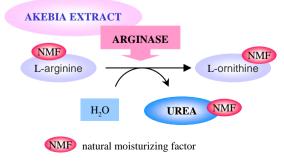
3 Functionality

The Activity of Arginase in the Cultured Keratinocytes



BAKUMONDOU EXTRACT(%)

★ Bio-Synthesis of Urea by Arginase in Epidermis.



Cultured human keratinocytes are cultured with **BAKUMONDOU EXTRACT BG** for 2 days.

Arginase activity was determined by measureing inreased quality of converted Urea from Arginine in the enzymatic action.