PLANOXIA-BW

- Purpose for natural heavy metal chelator -



Skin Care: Skin, Lotion, Essence, Cream, Mask Pack, Facial Wash, Soap, Etc

Hair Care: Hair Conditioner, Shampoo, Hair Essence, Etc

Body Care: Body Cleanser, Body Lotion, Etc.



What is PLANOXIA-BW?

PLANOXIA-BW is derived from nature as a heavy metal chelating agent. It is developed for those who are craving for detoxifying from heavy metal. PLANOXIA-BW is a Korean buckwheat extract which is carries big amounts of phytic acid as a natural heavy metal chelator and also has rutin compound as an anti-oxidant agent

Main Ingredients

Common name	buckwheat	
Latin name	Fagopyrum esculentum	
Main ingredients	Flavonoids (rutin, orientin, vitexin, quercetin, isovitexin, isoorientin) Amino acids (arginine, lysine, cystine, histidine, glycine, alanine, valine, leucine, glutamic acid, phenylalanine), Phytic acid	
Biological effects	Anti-oxidants, Anti-lipid peroxidation effect, Inhibition of immediate-type allergic reaction	

buckwheat has long been used as therapeutics for anti-inflammation, detoxification and lowering the fever in Korean folk medicine.

Analysis of Rutin & Phytic acid contents

Dual curb a mt a setument	Contents (mg/100g)	
Buckwheat extract	Rutin	Phytic acid
Seed coats	12	20
Seeds	34	178
Stems	1,827	706

SPECIFICATION

INCI Name Water / Butylene glycol / Polygonum Fagopyrum (Buckwheat) stem extract (in process)

Colour Brown liquid

Dry residue (110°C) 0.5% ± 0.05%

Water Nearly 40%

Butylene Glycol 60%

Preservative Non-added

Packaging unit 5kg / 10kg / 20kg

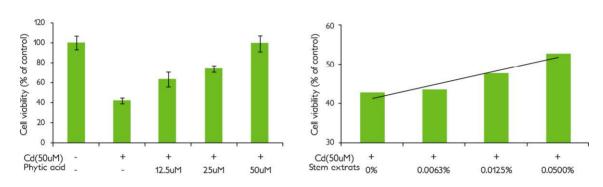
Shelf life 2 year properly stored

Dosage 1 % ~ 3%



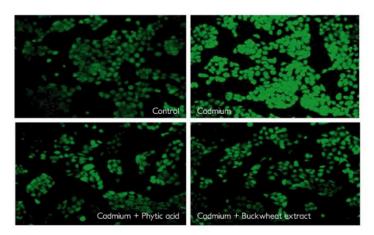
Main Biological Effects for Cosmetics

- Heavy metal chelating effect of stem extract of the Buckwheat extract
 - 1. Anti-cytotoxicity effect of the phytic acid and buckwheat stem extract.



Protective effect of Phytic acid and Buckwheat stem extracts on cadmium(Cd) mediating toxicity

2. Inhibition effect of ROS(Reactive oxygen speices) produce of the phytic acid and buckwheat stem extracts mediated from cadmium (Cd)



Identification of cadmium-mediated intrecellular generation reactive oxygen species and its elimination by confocal laser microscope (Cd: 50µM, phytic acid: 50µM, buckwheat stem extracts: 0.05%)

Buckwheat stem extracts shows powerful inhibitors of ROS production in skin cell from heavy metal toxicity and also it can inhibit cell toxicity in a dose-dependent manner

