

MOISTURIZING



CHINA

For Moisturizing

NANOMOIST

INCI NAME : FRUCTAN

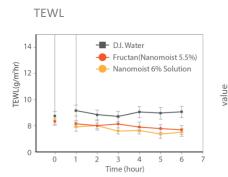
GENERAL DESCRIPTION FOR RAW MATERIAL

NANOMOIST is a levan type fructan produced by a microorganism, Zymomonas mobilis. A fructan is a polymer of fructose molecules. Fructans with a short chain length are known as fructooligosaccharides. Fructans occur in various plants especially root of Asteraceae and Poaceae, also in agave, artichokes, asparagus, leeks, garlic, and onions etc. Two main types of fructan are the inulin with β -2,1 linkages of fructose and the levan with mainly β -2,6 linkages of fructose and different branched chains of β -2,1 bonds based on its origin.

Fructan existing in nature has the linked structure of one molecular of glucose and dozens to tens of thousands fructose. Fructan in plants has low molecular weight with up to 200 linkages of fructose while fructan produced by microorganisms has high molecular weight with up to hundred thousand fructose linkages.

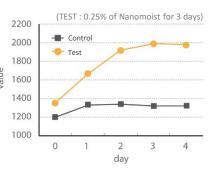
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Moisturizing

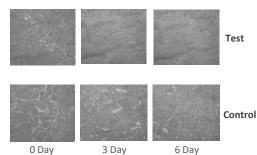


Continuous Moisturizing

Corneometer



Pictures of In Vivo tests



SPECIFICATION

Appearance	Light yellow powder
Odor	Typical
рН	5.0 ~ 8.0
Identification	IR spectrum
Total bacterial count	Not more than 1000 cfu/g
Yeast & molds	Not more than 10 cfu/g

PRODUCT INFORMATION

TRADE NAME	NANOMOIST	
INCI NAME	COMPOSITION	
FRUCTAN	100%	
STANDARD PACKAGE	1KG	



MOISTURIZING



TECHNICAL INFORMATION

Processing & Dosage

The recommended dosage of NANOMOIST is 1-10% to obtain a significant moisturizing and anti-inflammatory effect. NANOMOIST is a water soluble ingredient. In order not to disturb the structure and conformation of the polysaccharide it is recommended to incorporate NANOMOIST into formula at the last phase of the formulation at about 40°C.

Storage & Shelf life

NANOMOIST should be stored in a dark, cool and clean place. If stored in these conditions the shelf life is at least 24 months. Once the original packing is open, it is highly recommended to use at once.

Safety information

Fructans are presently used in functional foods and as soluble fibers. Fructans can also be used as low calory sweeteners. Based on the food usage of fructan, NANOMOIST is considered as safe material for cosmetic usage.

FRUCTAN (J TYPE)

INCI NAME : WATER / FRUCTAN / BUTYLENE GLYCOL / PHENOXYETHANOL

PRODUCT INFORMATION

*: CHINA

SPECIFICATION

Appearance	Slightly turbid, viscous liquid	TRADE NAME	FRUCTAN (J TYPE)	INCI Key Index	
Odor	Typical	INCI NAME	COMPOSITION (INCI Key Index)	A : Greater than 50%	
Cubi		WATER	Α	B : Greater than 25% but less than or equal to 50%	
рН	5.0 ~ 7.0	FRUCTAN	D	C : Greater than 10% but less than or equal to 25%	
Specific Gravity (d20/20)	1.330 ~ 1.380	BUTYLENE GLYCOL	 E	D : Greater than 5% but less than or equal to 10%	
Total bacterial count Not more than 100cfu/mL	PHENOXYETHANOL	 F	E : Greater than 1% but less than or equal to 5%		
		CTANDARD		F : Greater than 0.1% but less than or equal to 1%	
Yeast & molds	Not more than 10cfu/mL	STANDARD PACKAGE	20KG	G : Less than or equal to 0.1%	

