

Angel Human Health Division

Angel[®] Yeast beta glucan SG90

TECHNICAL DATA SHEET

DESCRIPTION: Yeast beta glucan is a polysaccharide exists in the yeast cell wall and has the functions of immunity enhancing, blood lipids improving, anti-radiation and intestinal functions improvement. Yeast beta glucan is a product developed by Angel Yeast relying on strong R & D capabilities, which is safe, health and with a high biological activity.

INGREDIENT STATEMENT:

High purified (1,3)-(1,6)- β -D-glucan;
Gluten-free product;
GMO-Free;
Non-allergy

PHYSICO- CHEMICAL CHARACTERISTIC:

pH (2% solution)	5.0 - 7.0
Bulk density	0.4 - 0.6 g/mL
Particle size	100% through 80 mesh
Aroma & flavor	Characteristic

FEATURES:

1. Specific activation of human immune cells, can rapidly enhance the immune system.
2. Anti-radiation, anti-tumor, and intestinal functions improvement;
3. From natural yeast, which is safe and health;
4. GRAS in USA.
5. Novel food ingredient in EU.
6. Soluble yeast beta glucan is available now. The application range is wider.

Product Facts:

Item	Specification
Origin	Non-GMO strain of <i>Saccharomyces cerevisiae</i>
Appearance	Light beige powder
Odor	Typical odor of the product
Moisture, %	≤6.0
Fat, %	≤1.0
Protein, %	≤3.5
Ash, %	≤3.0
(1,3)-(1,6)- β -D-glucan	≥85

APPLICATIONS:

Van Wankum Ingredients, Nassastraat 16-1, 3601BG Maarssen, Netherlands
W: www.vw-ingredients.com

1. As a functional food ingredient or for the use in food supplements.
2. Health food or medicines, to enhance immunity, anti-radiation, regulating blood lipids, and adjuvant treatment of cancer.
3. All kinds of foods, such as: meat, dairy products, biscuits, drinks, fruit juices.

INGREDIENTS LIST/BREAKDOWN:

100% Yeast Beta-Glucan Concentrate

NUTRIENT CONTENT (Typical Value)

Nutrients	Content (/100 g)
Calories	21 Kcal
Total fat	1.0 g
-of which saturated fat	/ g
Protein	3.0 g
Sodium	0.5 g
Total carbohydrate	86 g
-of which dietary fibers	86 g
-of which sugars	<0.1 g
Ash	3 g

PRODUCT STATEMENT:

Non-GMO	HALAL
"Vegan" diets	KOSHER
BSE/TSE Free	Gluten Free
Non-Irradiation	Residual Solvents Free
NON-PESTICIDES	NON-MELAMINE
NON-DIOXINS	NON-ALLERGEN according to EU 1169/2011
NON-AFLATOXIN	Preservatives Free
NON-SILICA GEL BAGS	NON-PAH (Polycyclic Aromatic Hydrocarbons)
NON-SULFITE	

COMPOSITION ANALYSIS (Typical Value):

Components	Content
Carbohydrates	87.0
Fat	1.0
Protein	3.5
Ash	2.5
Moisture	5.0

Microbiological Data (Typical Value):

Items	Value
Aerobic plate count	80 CFU/g
Coliform	<10 CFU/g
Yeast & Mold total	<10 CFU/g
Enterobacteriaceae	<100 CFU/g
Bacillus cereus	<100 CFU/g
E. Coli	Negative /1g
Salmonella	Negative /25g
Staphylococcus aureus	Negative /1g

CHEMICAL ANALYSIS (Typical Value):

Component	Content
PAH (2 to 4 rings)	<0.05 µg/g
PAH (5 and more rings)	<0.05 µg/g
PCB	<0.01 µg/g
Dioxin (TEQ)	<0.2 µg/g
Hydrogen cyanide	<10 µg/g
Fluoride	<10 µg/g
Nitrite	<10 µg/g
Aflatoxin	<3 ng/g
As	<0.1 µg/g
Pb	<0.05 µg/g
Cd	<0.1 µg/g
Hg	<0.02 µg/g
Sb	<0.4 µg/g
Be	<0.1 µg/g
Zn	<250 µg/g
Bi	<0.4 µg/g
Cu	<5 µg/g
Ca	<0.4 %
Mg	<0.1 %
Na	<2.5 %

STRUCTURAL FACTS

Van Wankum Ingredients, Nassastraat 16-1, 3601BG Maarssen, Netherlands
W: www.vw-ingredients.com

Linkages Composition	Value of Total
β-1,3 linkages	82 %
β-1,6 linkages	8 %
β-1,3,6-linkages (branching points)	5 %
Terminal units	5 %

¹³ C-NMR (main peaks)	ppm
C-1	105.14
C-2	73.12
C-3	85.76
C-4	68.46
C-5	75.47
C-6	61.43

ISO / Third Party Audit:

ISO: ISO9001; ISO14001; ISO22000; OHSAS18001;

Third Party Audit: BRC;

Laboratory Accreditation – CNAS certificate; Kosher/HALAL certificates.

LOT CODING:

Example: 2018032201

20180312=YYYYMMDD packaging began, 01= first batch produced that day

PACKAGING:

Angel® Yeast beta glucan SG90

500g*20 bags/drum, outside packing is carton, inside packing are aluminium foil bags.

SHELF LIFE and STORAGE:

2 years, to be stored in a cool and dry place in closed container.

CUSTOMS CODE:

3913 90 0090

CAS NO.:

9012-72-0

NOTE:

Specification, COA, MSDS, Flow Chart and more documents are available upon request.