



גדות תעשיות ביוכימיה בע"מ
Gadot Biochemical Industries Ltd.

Fruit'nSweet

Crystalline Fructose FCC/USP/EP

Description:

White hygroscopic odorless crystals having a sweet taste manufactured from non GMO and gluten free corn starch

General Characteristics:

Formula:	C ₆ H ₁₂ O ₆
Molecular weight:	180
Appearance:	White crystals
Taste:	Sweet
Odor:	Odorless
Solubility (gr./100 ml at 25°C):	Very soluble in water .Soluble in Methanol and Ethanol. Insoluble in Ether
CAS Number:	57-48-7

Standard Specifications:

Gadot's Fructose meets the standards of the Food Chemical Codex, the United States Pharmacopoeia and the European Pharmacopoeia.

Identification	Meets FCC/USP/EP
Appearance of Solution	Meets FCC/USP/EP
Assay	99 – 101%
Calcium	Less than 5 ppm
Barium	Less than 0.5 ppm
Calcium & Magnesium (as Calcium)	Less than 50 ppm
Chloride	Less than 40 ppm
Color	Passes test (35 ICUMSA units max.)
HMF	Less than 75 ppm
Heavy metals	1 ppm max.
Loss on drying	0.2% max. (0.5% for the regular granular)
pH (10% solution)	5- 7
Residue on ignition	0.1% max.
Lead (asPb)	0.1 ppm max.
Arsenic (as As)	0.1 ppm max.
Iron (as Fe)	5.0 ppm max.
Foreign sugar	Less than 0.5%
Sulphate	Less than 40 ppm
Sulphite	Less than 6.0 ppm
Mercury	0.1 ppm max.
Specific Rotation	-91 – -93.5
Cadmium	0.2 ppm max.
Acidity	Passes test



גדות תעשיות ביוכימיה בע"מ Gadot Biochemical Industries Ltd.

Nutritional Values:

<u>Nutrient</u>		<u>Nutrient Quantity</u>
Glycemic Index	-	22
Artificial colors	-	None
Biotin	-	None
Calcium	-	10 mg/kg max.
Caloric value	-	400 Kcal/100 gr.
Carbohydrates	-	99-100 %
Chlorine	-	None
Cholin	-	None
Chromium	-	0.5 mg/kg max.
Copper	-	0.5 mg/kg max.
Dietary Fibers	-	None
Fat	-	None
Folat	-	None
Iodine	-	None
Iron	-	5 mg/kg max.
Magnesium	-	10 mg/kg max.
Manganase	-	0.5 mg/kg max.
Molybdenum	-	1 mg/kg max.
Niacin	-	None
Nitrate and Nitrite	-	None
Pantotenic Acid	-	None
Phosphorus	-	None
Potassium	-	10 mg./kg max.
Protein	-	None
Riboflavin	-	None
Selenium	-	2 mg/kg max.
Sodium	-	10 mg/kg max.
Sugars	-	99-100%
Thiamin	-	None
Vitamin A	-	None
Vitamin B-12	-	None
Vitamin B-6	-	None
Vitamin C	-	None
Vitamin D	-	None
Vitamin E	-	None
Vitamin K	-	None
Zinc	-	2 mg/kg max.



גדות תעשיות ביוכימיה בע"מ Gadot Biochemical Industries Ltd.

Allergens

Gadot's Fructose fully comply with the general food labeling directives 2000/13/EC and 1169/2011/EC, and contains no allergenic ingredients as defined by annex IIIa to directive 2003/89/EC 2006/142/EC. and 2007/68/EC

Organic Volatile Impurities

Gadot's Fructose contains no tridodecylamin nor any polynuclear hydrocarbons or volatile organic impurities. These compounds are not used in the manufacturing process of the above product and if tested they will comply with the required specified limits of U.S.P and E.P.

<u>Impurities</u>	<u>Limit</u>
Benzene	2 PPM
Carbon tetrachloride	4 PPM
1,2 - Dichloroethane	5 PPM
1,1 – Dichloroethene	8 PPM
Chloroform	60 PPM
1,4 - Dioxane	380 PPM
Ethylen Oxide	10 PPM
Methylen Chloride	600 PPM
Tri Chloroethylene	80 PPM

Standard Granulation:

Grade	USS Sieve	Microns	
Standard Granular	On No. 16	1200	15% max.
	Through No. 30	600	15% max.
Fine Granular	On No. 30	600	15% max.
	Through No. 70	200	15% max.
Regular Granular	On No. 5	4000	0.5% max.
	Through No. 325	45	15% max.

Other requirements:

Foreign Bodies: In compliance with the FDA/ORR compliance policy guide section 555.425.

BSE/TSE

No raw materials from bovine origin are used nor are any bovine constituents present in the product.



Hormones and Antibiotics

No antibiotics or hormones are present in the product.

Mycotoxines:

Total Aflatoxines	- less than 4	ppb
Aflatoxins B1	- less than 2	ppb
Aflatoxins M1	- less than 0.05	ppb

Pesticides and Insecticides:

Complies with United States and European food health regulations.

GMO - Status:

The product is a non GMO product and is free from any recombinant DNA technology involvement.

Irradiation / Radioactivity:

Gadot's Fructose was never subjected to any kind of ionized irradiation and contains no radioactivity not even in minor amounts.

Microbiological Specification:

Total viable count	-	100 CFU/gr. max.
Yeast	-	10 CFU/10gr. max.
Molds	-	10 CFU/10gr. max.
E. Coli	-	Absent in 10 gr.
Staphylococcus Aureus	-	Absent in 10 gr.
Pseudomonas Aeruginosa	-	Absent in 10 gr.
Salmonella	-	Absent in 25 gr.
Coliforms	-	10 CFU/gr. max.
Listeria Monocytogenes	-	Absent in 25 gr.

Main Uses:

- Nutritive sweetener.
- Processing and formulation aid in foods.
- Not for use in the preparation of injectable solutions.



גדות תעשיות ביוכימיה בע"מ Gadot Biochemical Industries Ltd.

Packaging:

25 kg. or 50 lb. polyethylene-lined multi-wall paper bags, palletized and stretch-wrapped. Big bags and other packaging available on request. All packaging materials used are suitable for food applications according to FDA and EU regulations.

Expiry Date:

Fructose has a shelf life of two years from production date. The production date is printed on the bags.

Kosher and HALAL:

Fructose produced by Gadot is strictly Kosher and HALAL certified. Certificates are available upon request.

Vegetarians / Vegans:

Fructose produced by Gadot is suitable for consumption by vegetarians and vegans.

ISO 9000:

Gadot is ISO-9001:2015 certified.

HACCP:

Gadot Biochemical Industries Ltd. Food Safety Management System - HACCP comply with:

1. CODEX ALIMENTARIUS – Annex to CRC/RCP – 1969 Rev.3 (1997).
2. Health Ministry Guide for HACCP, March 2002 Edition
3. GFSI standards.

GMP:

Gadot Biochemical Industries is GMP certified. Gadot manufacture its Fructose under strict supervision and full compliance with all GMP rules, and therefore permitted to label it's product with official GMP symbol as laid down in the public health regulations.

Storage Recommendations:

Store in a cool and dry place.

Updated: November 19, 2018