



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

### General Characteristics:

<b>Formula:</b>	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
<b>Molecular weight:</b>	180
<b>Appearance:</b>	White crystals
<b>Taste:</b>	Sweet
<b>Odor:</b>	Odorless
<b>Solubility (gr./100 ml at 25°C):</b>	Very soluble in water .Soluble in Methanol and Ethanol. Insoluble in Ether
<b>CAS Number:</b>	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%
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 (50% solution)	3- 6
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
Cadmium	0.14 ppm max.
Acidity	Passes test



### 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

### Nutritional Values:

<u>Nutrient</u>	<u>Nutrient quantity</u>
Glycemic Index.	- 22
Protein	- none
Carbohydrates	- 99-100%
Dietary fibers	- None
Fat	- None
Saturated fatty acid	- None
Sodium	- 20 ppm max.
Sugars	- 99-100%
Vitamin A, C, D, B, B <sub>2</sub> , B <sub>6</sub> , B <sub>12</sub>	- none
Niacin	- none
Calcium and Magnesium (as Calcium)	- 50ppm max.
Iron	- 5ppm max.
Phosphorus	- none
Panhotenic acid	- none
Artificial colors	- None
Caloric value	- 400 Kcal/100 gr.

### 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

**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/ORA 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.



## גדות תעשיות ביוכימיה בע"מ Gadot Biochemical Industries Ltd.

### Microbiological Specification:

Total viable count	-	500 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.

### 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:

Fructose produced by Gadot is strictly Kosher. Kosher 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 : 2008 certified.



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### 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.

### 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: September 19, 2016