



גדות תעשיות ביוכימיה בע"מ
Gadot Biochemical Industries Ltd.

Gadocal Extreme

Description:

Gadocal Extreme is a freely soluble, stable, highly bioavailable calcium source used for food fortification.

The product is patent pending, Israeli Patent Pending No.173462.

General Characteristics:

Appearance:	Off white to yellowish powder
Odor:	Practically odorless
Solubility:	In water - Freely soluble
E-Number:	E-578
CAS Nr. :	77938-63-7 299-28-5

Standard Specifications:

<u>Identification</u>	<u>Spec. Limits</u>
Arsenic	Less than 1 ppm
Assay (as Ca)	More than 9.5 %
Fluoride	Less than 30 ppm
Heavy metals	Less than 5 ppm
Lead	0.5 ppm max.
Nitrite and Nitrate	non detectible
Loss on drying (105°C, 1 h)	Less than 8.0%
Solubility	More than 70 %
pH 1%	6 – 8
Mercury	0.1 ppm max.
Cadmium	0.5 ppm max.

Other requirements:

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



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Organic Volatile Impurities

Gadocal Extreme 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>
Protein	- None
Carbohydrates	- 43%
Fat	- None
Vitamin A	- None
Vitamin C	- None
Thiamin	- None
Riboflavin	- None
Niacin	- None
Calcium	- 9.5 – 11%
Vitamin D	- None
Vitamin B-6	- None
Vitamin B-12	- None
Heavy metals	- 5 ppm max.
Lead	- 0.3 ppm max.
Caloric Value	- 361 Kcal/100 gr.
Artificial colors	- product does not contain artificial color

Allergens:

Gadocal Extreme doesn't contain any food allergens according to annex 3a of EU directive 2003/89.



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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:

Gadocal Extreme was never subjected to any kind of ionized irradiation and contains no radioactivity not even in minor amounts.

Microbiological Specification:

Total viable count	-	3000 CFU/gr. max.
Yeast & Molds	-	20 CFU/gr. 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.



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Main Uses:

Calcium fortification of food.
Not for use in the preparation of injectable solutions.

Packaging:

50 lb, 20 Kg. or 10 Kg. 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.

Labeling:

Calcium Gluconate, Glucose.

Expiry Date:

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

Kosher:

Gadocal Extreme produced by Gadot is strictly Kosher. Kosher certificates are available upon request.

Vegetarians / Vegans:

Gadocal Extreme produced by Gadot is suitable for consumption by vegetarians and vegans.

ISO 9000:

Gadot is ISO-9001 : 2008 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.



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GMP:

Gadot Biochemical Industries is GMP certified.

Gadot manufacture its Gadocal Extreme 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, dry place.

Keep product always in closed container.

Avoid as much as possible exposure to air (product might get colored).

Updated: December 3 , 2015