



גדות תעשיות ביוכימיה בע"מ  
Gadot Biochemical Industries Ltd.

# Gadolin Magnesium

## Description:

Gadolin Magnesium is a freely soluble, highly bioavailable formulation composed from citrate based Magnesium source and dietary fibres.

## General Characteristics:

<b>Appearance:</b>	Fine white to off white free flowing powder
<b>Odor:</b>	Odorless
<b>Solubility:</b>	In water - Freely soluble
<b>E-Number:</b>	E-333

## Standard Specifications:

### Identification

### Spec. Limits

Arsenic	Less than 1 ppm
Assay (as Mg)	1.5 – 2.5%
Flouride	Less than 30 ppm
Heavy metals	Less than 5 ppm
Lead	Less than 0.2 ppm max.
Nitrite and Nitrate	non detectible
Loss on drying (70°C vacuum oven)	Less than 3%
Solubility	More than 15%
pH 1%	3.8 – 4.8
Total Carbohydrates	73 – 77%
Dietary Fibres	50 – 55%

## Organic Volatile Impurities

Gadolin Magnesium 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



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### 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

### Insecticides:

Complies with food health regulations.

### GMO - Status:

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

### Irradiation / Radioactivity:

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

### Microbiological Specification:

Total viable count	-	500 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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### Nutritional Values:

<u>Nutrient</u>	<u>Nutrient Quantity</u>
Protein	- None
Fat	- None
Vitamin A	- None
Vitamin C	- None
Thiamin	- None
Riboflavin	- None
Niacin	- None
Magnesium	- 1.5 – 2.5%
Vitamin D	- None
Vitamin B-6	- None
Vitamin B-12	- None
Heavy metals	- 5 ppm max.
Lead	- 0.3 ppm max.
Caloric Value	- 146 Kcal/100 gr.
Artificial colors	- product does not contain artificial color
Dietary fibres	- 50 – 55%
Carbohydrates*	- 73 – 77%

\* including dietary fibres

### Allergens:

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

### Main Uses:

- Magnesium fortification of food stuff
- Dietary fibres supplement.
- Acidity regulator in food.

### 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:

Magnesium Citrate, Inulin, Fructose.



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### Expiry Date:

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

### Kosher:

Gadolin Magnesium produced by Gadot is strictly Kosher. Kosher certificates are available upon request.

### Vegetarians / Vegans:

Gadolin Magnesium produced by Gadot is suitable for consumption by vegetarians and vegans.

### ISO 9000:

Gadot is ISO-9001 : 2000 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. DS – 3027E: 1998
3. Health Ministry Guide for HACCP, March 2002 Edition.

### GMP:

Gadot Biochemical Industries is GMP certified.

Gadot manufacture its Gadolin Magnesium under strict supervision and full compliance with all GMP rules, and therefore permitted to label its 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: August 10<sup>th</sup>, 2010