



גדות תעשיות ביוכימיה בע"מ
Gadot Biochemical Industries Ltd.

GadoMag K

Description:

GadoMag K is citrate based Magnesium compound, designed to supplement liquid food products conveniently with a readily absorbable form of Magnesium. Best suitable for soy and dairy products fortification.

The product is patent pending, Israeli Patent Pending No 191876.

General Characteristics:

Appearance:	White powder
Odor:	Odorless
CAS:	137590-34-2

Standard Specifications:

	<u>Spec. Limits</u>
Identification A	Meets specification for Magnesium
Identification B	Meets specification for Potassium
Identification C	Meets specification for Citrate
Arsenic	0.5 ppm max.
Assay (as Mg) on as is basis	9.0 – 11 %
Assay (as K) on as is basis	7.5 – 11 %
Heavy metals	Less than 5 ppm
Lead	0.5 ppm max.
Stability of dispersion	Passes test
pH(1%)	7 -11
Cadmium	1 ppm max.
Mercury	0.1 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

GadoMag K 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 (dairy derived)	-	none
Carbohydrates	-	none
Fat	-	none
Vitamin A	-	none
Vitamin C	-	none
Thiamin	-	none
Riboflavin	-	none
Niacin	-	none
Calcium	-	none
Vitamin D	-	none
Vitamin B-6	-	none
Vitamin B-12	-	none
Phosphorus	-	none
Magnesium	-	10 % Typical
Zinc	-	none
Pantotenic Acid	-	none
Potassium	-	9 % Typical
Artificial colors	-	product does not contain artificial color
Caloric value	-	175 Kcal/100g

Allergens:

GadoMag K 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

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:

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

Microbiological Specification:

Total viable count	-	2000 CFU/gr. max.
Yeast & Molds	-	100 CFU/gr. max.
E. Coli	-	Absent in 10 gr.
Staphylococcus Aureus	-	Absent in 10 gr.
Salmonella	-	Absent in 25 gr.
Coliforms	-	10 CFU/gr. max.



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Main Uses:

Magnesium fortification for soy and dairy products.
(It is highly recommended to use high shear mixing device while GadoMag K addition to the beverage for good dispersion).

Labeling:

Magnesium Citrate, Potassium Citrate

Packaging:

50 lb or 25 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.

Expiry Date:

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

Kosher:

GadoMag K produced by Gadot is strictly Kosher. Kosher certificates are available upon request.

Vegetarians / Vegans:

GadoMag K produced by Gadot is suitable for consumption by vegetarians and vegans.

ISO 9000:

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

GMP:

Gadot Biochemical Industries is GMP certified.

Gadot manufacture its GadoMag K 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.

Updated: August 10th, 2010