



גדות תעשיות ביוכימיה בע"מ  
Gadot Biochemical Industries Ltd.

# Encapsulated Citric Acid - 60

## Description:

The use of Citric Acid with other ingredient in food application can generated problems like change in flavor, color, taste or shelf life of the product. This problem is overcome by using the citric acid in the encapsulated form.

GBI's Encapsulated citric acid 60 is a specifically processed citric acid which has been coated by hydrogenated vegetable oil.

## General Characteristics:

<b>Citric Acid quality</b>	USP/FCC/EP
<b>Citric Acid</b>	
<b>CAS Number:</b>	77-92-9
<b>E-Number:</b>	E-330
<b>Coating Material:</b>	Hydrogenated vegetable oil
<b>CAS Number:</b>	8002-75-3

## Standard Specifications:

### Identification

Assay (as citric acid)	58-62%
HVO content	38-42%
Moisture	less than 3%
Appearance	free flowing
Color	off white
Realease rate (24 hours)	less than 10%

## Organic Volatile Impurities

Gadot's encapsulated citric acid 60 complies 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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### Nutritional Values:

<u>Nutrient</u>		<u>Nutrient quantity</u>
Protein (dairy derived)	-	None
Carbohydrates	-	None
Fat	-	40% of hydrogenated vegetable oil
Vitamin A	-	None
Vitamin C	-	None
Thiamin	-	None
Riboflavin	-	None
Niacin	-	None
Calcium	-	5 mg/1 kg max.
Iron	-	75 mg/1 kg max.
Vitamin D	-	None
Vitamin B-6	-	None
Vitamin B-12	-	None
Phosphorus	-	None
Magnesium	-	2 mg./1000 gr.
Zinc	-	None
Sodium	-	2 mg./1000 gr.
Potassium	-	2 mg./1000 gr.
Artificial colors	-	product does not contain artificial color
Caloric value	-	507.4 Kcal/100 gr.

### Allergens:

Gadot's encapsulated citric acid 60 doesn't contain any food allergens according to annex 3a of EU directive 2003/89.

### Standard Granulation:

On 14 USS	- 1,400 microns	0%
Through 30 USS	- 600 microns	10% max.

### Other requirements:

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



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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:**

Gadot's encapsulated citric acid 60 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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### Main Uses:

- Production of sausages (meat industry).
- Confectionary Enhancement application.
- Dry mixes for beverage preparation.
- Bakery industry.
- This grade can be altered to fit frozen applications.
- Not for use in the preparation of injectable solutions.

### Packaging:

25 kg. or 50 lb. in polyethylene-lined Triwall carton boxes.

Other packaging available on request.

All packaging materials used are suitable for food applications according to FDA and EU regulations.

### Expiry Date:

Encapsulated citric acid 60 has a shelf life of two years from production date.

The production date is printed on the bags.

### Kosher:

Encapsulated citric acid 60 produced by Gadot is strictly Kosher. Kosher certificates are available upon request.

### Vegetarians / Vegans:

Encapsulated citric acid 60 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 Citric Acid Encapsulated 60 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.

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