

## Tricalcium Citrate

### General Characteristics:

<b>Formula:</b>	$\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 4\text{H}_2\text{O}$
<b>Molecular weight:</b>	570.5
<b>Appearance:</b>	Fine white free flowing powder
<b>Odor:</b>	Odorless
<b>CAS Number:</b>	[ 5785-44-4]
<b>EINECS No.:</b>	212-391-7
<b>INS:</b>	333
<b>Solubility:</b>	In water -Almost insoluble;In alcohol -Insoluble

### Nutritional Values:

<b>Nutrient</b>		<b>Nutrient Quantity</b>
Protein	-	none
Carbohydrates	-	none
Fat	-	none
Vitamin A	-	none
Vitamin C	-	none
Thiamin	-	none
Riboflavin	-	none
Niacin	-	none
Calcium	-	20.4 – 21.8%
Vitamin D	-	none
Vitamin B-6	-	none
Vitamin B-12	-	none
Heavy metals	-	5 ppm max.
Lead	-	0.3 ppm max.
Fluoride	-	30 ppm max.
Caloric Value	-	163 Kcal/100 gr.
Artificial colors	-	product does not contain artificial color

### Uses:

- Calcium fortification food、Dietary supplements.
- Not for use in the preparation of inject able solutions.
- buffering agent、Acidity regulator in food、Firming agent.

### Packing and storage:

- 25kg net paper bag and PE bags sealed inside.
- Store in a well-closed bag at room temperature, protect from light, moisture and pest infestation.
- Shelf life--- two years

## **Microbiological Specification:**

Total viable count	500CFU/gr.max
Yeast&Molds	20CFU/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.

## **GMO-Status:**

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

## **Irradiation/Radioactivity:**

Yunbo's Tricalcium citrate was never subjected to any kind of ionized irradiation and contains no radioactivity not even in minor amounts.

## **BSE/TSE:**

No raw materials from bovine origin are used nor are any bovine constituents present in the product.

## **Specifications: (FCC)**

<b>Test Parameter</b>	<b>Specifications</b>
Assay	97.5%~100.5 %
Appearance	Fine white powder
Test for citrate	Passes test
Test for calcium	Passes test
Loss on drying (180°C,4h)%	10.0%~13.3%
Oxalates	≤100ppm
Fluoride	≤30ppm
Arsenic	≤1.0ppm
Lead	≤2.0ppm
Mercury	≤1.0ppm
Aluminum	≤30ppm
Carbonates	Passes test
Limit of acid-insoluble substances	≤0.2%
Heavy metals	≤0.002%
Organic volatile impurities	Passes test
Particle size	Regular powder
	D50 3 microns
	D50 8microns
	D99 45microns
	Granular