Calcium Citrate

# General Characteristics:

**Product code:** TopCal\_TCC

**Formula:** Ca3(C6H5O7)2 . 4H2O

**Molecular weight:** 570.5

**Appearance:** Fine white free flowing powder

**Odor:** Odorless

**CAS Number:** [ 5785-44-4]

**EINECS No.:** 212-391-7

**INS:** 333

**Solubility:** In water -Almost insoluble;In alcohol -Insoluble

# 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 Calcium 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/E333(iii)/USP-NF)

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| **Test Parameter** | **FCC** | **E333(iii)** | **USP-NF** |
| Assay | 97.5%~100.5 % | ≥97.5% | 97.5%~100.5 % |
| Appearance | Fine white powder | Fine white powder | Fine white powder |
| Test for citrate | **/** | Passes test | **/** |
| Test for calcium | **/** | Passes test | **/** |
| Loss on drying  (180℃,4h)% | 10.0%~14.0% | ≤14.0% | 10.0%~13.3% |
| Oxalates | **/** | ≤100ppm | **/** |
| Fluoride | ≤30ppm | ≤30ppm | ≤30ppm |
| Arsenic | **/** | ≤1.0ppm | ≤3.0ppm |
| Lead | ≤2.0ppm | ≤2.0ppm | **/** |
| Mercury | **/** | ≤1.0ppm | **/** |
| Aluminum | **/** | ≤200ppm | **/** |
| Carbonates | **/** | Passes test | **/** |
| Limit of acid-insoluble  substances | **/** | **/** | ≤0.2% |
| Heavy metals | **/** | **/** | ≤0.002% |

|  |  |  |
| --- | --- | --- |
| **Product Code** | **Granularity** | **Particle size(mesh/μm**） |
| TopCal\_TCC | Fine Powder | 5μm＜D50≤8μm |

