

Tricalcium Phosphate

General Characteristics:

Formula:	$\text{Ca}_3(\text{PO}_4)_2$; $\text{Ca}_5\text{OH}(\text{PO}_4)_3$; $\text{Ca}_{10}(\text{OH})_2(\text{PO}_4)_6$
Molecular weight:	310.18; 502.31; 1004.61
Appearance:	White non-qualitative powder
Odor:	Odorless, tasteless
CAS Number:	[7758-87-4]; [1306-06-5]; [62974-97-4]
EINECS No.:	231-840-8
INS:	341(iii)
Solubility:	Insoluble in ethanol and acetone, slightly soluble in water, soluble in hydrochloric acid and nitric acid.

Uses:

- Food-nutritional supplement in food、 yeast food.
- Animal oil refining auxiliaries、 antitackiness agent.
- PH regulator、 buffering agent.
- Free-flow agent for dry beverage and other food products.
- A source of calcium and phosphorus in nutritional supplements.

Packing and Storage:

- 10kg/ 20kg/ 25 kg per bag, A multiply paper bag with poly inner liner.
- 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	1000CFU/gr.max
Yeast&Molds	25CFU/gr.max
E.Coli	Absent in 10 gr.

GMO-Status:

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

Irradiation/Radioactivity:

Yunbo's Tricalcium phosphate 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(USP/E341(iii)/FCC):

Test Parameter	Ph.Eur	USP-NF	E341(iii)	FCC
Appearance	White or almost white powder	White or almost white powder	White or almost white powder	Occurs as a white powder
Identification A	Passes test	Passes test	Passes test	Passes test
Identification B	Passes test	Passes test	Passes test	Passes test
Identification C	It complies with the limits of the assay			
Assay 【as Ca】	35.0%~40.0%	34.0%~40.0%		34.0%-40.0%
Assay 【ignited basis】			≥90.0%	
P2O5			38.5-48.0%	
Loss on ignition	≤8.0%	≤8.0%	≤8.0%	≤10.0%
Heavy metal(as Pb)		≤0.003%		
Mercury			≤1.0ppm	
Arsenic	≤4.0ppm	≤3.0ppm	≤1.0ppm	≤3.0ppm
Lead			≤1.0ppm	≤2.0ppm
Cadmium			≤1.0ppm	
Aluminium			≤150.0ppm	
Chloride	≤0.15%	≤0.14%		
Sulfate	≤0.5%	≤0.8%		
Water-soluble substances		≤0.5%		
Acid-insoluble substances	≤0.2%	≤0.2%		
Carbonate		To pass the test		
Barium		To pass the test		
Dibasic salt and calcium oxide		To pass the test		
Limit of fluoride	≤75.0ppm	≤75.0ppm	≤50.0ppm	≤75.0ppm
Iron	≤400.0ppm			

Particle size: Fine powder (D50)	2.0-4.0 microns	Not a compendial specification
	6.0-9.0 microns	Not a compendial specification
	10.0-12.0 microns	Not a compendial specification
Thru 325 mesh	≥95.0%	Not a compendial specification
Granular		Not a compendial specification