



Technical Data Sheet

Liposomal Tricalcium Phosphate 27%

Product Summary

Liposomal Tricalcium Phosphate under the LiposoMore® brand is a high-bioavailability calcium source designed for use in dietary supplements. By utilizing advanced liposomal encapsulation technology, this ingredient ensures improved calcium absorption and gentle digestive performance. Containing 27% elemental calcium, it offers a concentrated and effective form of supplementation for bone health, muscle function, and overall wellness.

Product Details

Product Name: Liposomal Tricalcium Phosphate

Brand: LiposoMore®

Appearance: Fine yellowish-white to off-white powder

Calcium Content: 27% (as elemental calcium)

Solubility: Dispersible in water

Odor: Characteristic mild odor

Taste: Mild, bland

Encapsulation: Liposomal delivery system

Product Description

Liposomal Tricalcium Phosphate is manufactured using proprietary liposomal technology to encapsulate the calcium particles in phospholipid layers. This protects the mineral from degradation in the digestive tract and enhances its transport across the intestinal wall. The liposomal form promotes better tolerability compared to traditional calcium supplements, reducing the risk of gastrointestinal discomfort. This ingredient is suitable for tablets, capsules, and powdered supplement formulas aimed at improving skeletal health and calcium intake.

Specifications

| ITEMS | SPECIFICATIONS | RESULTS |
|-------|----------------|---------|
|-------|----------------|---------|

| | | |
|-----------------------------|----------------------------------|-------------|
| Appearance | White Powder | Pass |
| Odor | odorless | Pass |
| Assay(Calcium) | $\geq 27\%$ | 27.67% |
| Assay(Tricalcium phosphate) | $\geq 80.0\%$ | 82% |
| Loss on Drying | $\leq 10.0\%$ | 4.0% |
| Total Heavy Metal | $\leq 10\text{ppm(ICP-MS)}$ | < 10ppm |
| Lead(Pb) | $\leq 3\text{ppm(ICP-MS)}$ | < 3ppm |
| Mercury(Hg) | $\leq 0.1\text{ppm(ICP-MS)}$ | < 0.1ppm |
| Cadmium(Cd) | $\leq 1.0\text{ ppm(ICP-MS)}$ | < 1.0ppm |
| Arsenic(As) | $\leq 1.0\text{ ppm(ICP-MS)}$ | < 1.0ppm |
| Total Plate Count | $\leq 1000\text{cfu/g(USP2021)}$ | < 100 cfu/g |
| Molds & Yeasts | $\leq 100\text{cfu/g(USP2021)}$ | < 10 cfu/g |
| E.Coli | Negative/gram(USP2022) | Negative |
| Salmonella | Negative in 25 gram(USP2022) | Negative |
| Staphylococcus Aureus | Negative in 25 gram | Negative |

Applications

- Dietary Supplements: Formulated for calcium supplementation in capsules, tablets, sachets, and functional foods.
- Bone Health Products: Targeted support for bone density and prevention of osteoporosis.
- Sports Nutrition: Ideal for maintaining electrolyte balance and supporting muscle function.
- Fortified Foods and Beverages: Can be used to fortify drinks, shakes, and bars with calcium.

Packaging & Storage

Packaging: 10kg or 20kg net weight, double PE-lined fiber drum or as customized.
Storage: Store in a cool, dry place away from direct sunlight and moisture.

Shelf Life: 24 months from the date of manufacture when properly stored in unopened packaging.

Regulatory & Certifications

- Manufactured in ISO 22000-certified facility
- Halal and Kosher certified
- Non-GMO
- Allergen-free
- Conforms to food-grade quality standards

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