

Technical Data Sheet (TDS)

Liposomal Vitamin D3 – 100,000 IU/g (LiposoMore® Brand)

1. Product Identification

Component	Specification
Product Name	Liposomal Vitamin D3 Powder
Brand	LiposoMore®
Active Ingredient	Cholecalciferol (Vitamin D3)
Purity	100,000 IU/g
Encapsulation Technology	Liposomal delivery system (phospholipid bilayer)
Manufacturer	LiposoMore- Joyful Nutritional Ingredients Co., Ltd.
CAS No.	67-97-0
HS Code	29362900
Molecular Formula	C ₂₇ H ₄₄ O
Molecular Weight	384.64 g/mol

2. Composition

Component	Content (w/w)
Liposomal Vitamin D3	≥ 0.25% (equivalent to 100,000 IU/g)
Phospholipids	≤ 20.0%
Carrier (e.g., maltodextrin)	≤ 78.0%
Moisture	≤ 5.0%

3. Physical & Chemical Properties

Property	Specification
Appearance	Off-white to light yellow powder
Odor	Mild, characteristic
Solubility	Dispersible in water
Particle Size (D90)	< 200 µm
pH (1% aqueous solution)	6.0 – 7.5
Bulk Density	0.35 – 0.55 g/cm ³
Tapped Density	0.45 – 0.65 g/cm ³

4. Functional Claims & Benefits

- High bioavailability due to liposomal encapsulation
- Better stability and protection against degradation
- Enhanced absorption through lipid membranes
- Supports calcium absorption and bone health
- Suitable for use in functional foods and supplements

5. Microbiological Specifications

Parameter	Limit
Total Plate Count	< 10,000 CFU/g
Yeast & Mold	< 100 CFU/g
E. coli	Negative/10g
Salmonella	Negative/25g
Staphylococcus aureus	Negative/10g

6. Heavy Metals

Element	Specification
Lead (Pb)	< 1.0 ppm
Arsenic (As)	< 1.0 ppm
Cadmium (Cd)	< 0.5 ppm
Mercury (Hg)	< 0.1 ppm

7. Shelf Life & Storage

Shelf Life: 24 months from production date

Storage Conditions:

- Store in a cool, dry place (below 25°C)
- Avoid direct sunlight, humidity, and heat
- Keep in tightly sealed original packaging

8. Packaging

Standard Packaging:

- 1 kg/aluminum foil bag, vacuum-sealed
- 10 kg/carton or 25 kg/drum

Customization: Available upon request

9. Applications

- Vitamin D3 capsules & tablets
- Fortified functional beverages
- Nutritional gummies & sachets
- Infant and senior health nutrition
- Immune health blends

10. Certifications & Compliance

- Non-GMO
- Allergen-Free (based on lecithin source)
- Vegan / Vegetarian Suitable
- ISO 9001 / ISO 22000
- GMP Certified
- Halal / Kosher (upon request)

11. Additional Information

- Encapsulation Efficiency: $\geq 90\%$
- Liposomal Particle Size: 100–200 nm
- Preparation Method: Ultrasonic dispersion and membrane emulsification
- Advantages: Stability, bioavailability, non-irritating to digestive system

12. Contact us



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