

SPECIFICATION

Product Name: Vitamin D3 Stabilized 100000 IU/mg
Chemical Formula: C ₂₇ H ₄₄ O
CAS Number: 67-97-0
Molecular Weight: 384.64 g/mol
Appearance: Off- white coloured powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification test of vitamin D3	-	Complies	U.V. light absorption between 264nm to 265nm gives maxima at 265nm.
Assay of cholecalciferol	%	Claim: 100000 IU/g Found: 107335 IU/g %Claim: 107.34%	Between 90.0% and 115.0% of the label claim.

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in chloroform. Insoluble in oils.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place at 2–8°C or as recommended by the manufacturer. Protect from light, heat, oxygen, and moisture. Keep the container tightly closed in the original, properly labeled packaging and store in a well-ventilated area to maintain potency and stability. Avoid prolonged exposure to elevated temperatures and humidity.

Applications

- Use: Widely used as a source of vitamin D3 (cholecalciferol) in pharmaceutical, nutraceutical, food, and animal nutrition formulations. It helps support calcium and phosphorus absorption, bone and teeth health, immune function, and normal muscle function. It is commonly incorporated into tablets, capsules, powders, premixes, fortified foods, and dietary supplements to prevent or correct vitamin D deficiency.

-Dosage: Depends on the intended formulation, vitamin D3 strength, patient age, and nutritional or clinical requirements. It should be used according to product formulation specifications or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs Fiber Drum or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.