



40000 IU Capsule

20000 IU Capsule

2000 IU Tablet

1000 IU Tablet

Cholecalciferol USP

D

Cholecalciferol (Vitamin D₃)

Composition:

D-1000 Tablet: Each Tablet Contains Cholecalciferol (Vitamin D₃) USP 1000 IU.

D-2000 Tablet: Each Tablet Contains Cholecalciferol (Vitamin D₃) USP 2000 IU.

D-20000 Capsule: Each Capsule Contains Cholecalciferol (Vitamin D₃) USP 20000 IU.

D-40000 Capsule: Each Capsule Contains Cholecalciferol (Vitamin D₃) USP 40000 IU.

Description: D is a preparation of Cholecalciferol, a synthetic form of Vitamin D₃. It is essential for normal bone growth and development and to maintain bone density. Cholecalciferol helps our body to utilize both Calcium and Phosphorus. It acts as a hormone and increases reabsorption of Calcium and Phosphorus by the kidneys.

Pharmacology: The active form of Vitamin D₃ "calcitriol", exerts its effect by binding to the Vitamin D receptors (VDRs) which are widely distributed through many body tissues. Vitamin D₃ is absorbed in the small intestine and bound to specific-globulins and transported to the liver where it is metabolised to 25-hydroxy Vitamin D₃ (calcidiol). A second hydroxylation to 1,25-dihydroxy Vitamin D₃ (calcitriol) occurs in the kidney. This metabolite is responsible for the vitamins ability to increase the absorption of calcium. Non-metabolised Vitamin D₃ is stored in tissues such as fat and muscle. Vitamin D₃ is eliminated via faeces and urine.

Indication: It is indicated in the prevention and treatment of vitamin D₃ deficiency. As an adjunct to specific therapy for osteoporosis in patients with vitamin D₃ deficiency or at risk of vitamin D₃ insufficiency. Vitamin D₃ 20000 IU & 40000 IU capsules is indicated in adults.

Dosage & Administration: 1000 IU (1-2 tablets) daily with food or within 1 hour after a meal. 2000 IU (1 tablet) daily with food or within 1 hour after a meal.

Prevention of Vitamin D₃ deficiency: Starting dose of 1 capsule (20000 IU) once a month. **As an adjunct to specific therapy for osteoporosis:** 1 capsule (20000 IU) once a month.

Treatment of Vitamin D₃ deficiency: 40000 IU once weekly for 7 weeks, followed by maintenance therapy such as 2-3 capsules per month or 1400-2000 IU/day. Or as directed by the registered physician.

Contraindications: It is contraindicated in patients with known hypersensitivity to Vitamin D₃ or any other components of this product.

Precautions: Vitamin D₃ 20000 IU & Vitamin D₃ 40000 IU Capsules should be used with caution in patients with impaired renal function, impaired renal calcium and phosphate excretion, a tendency to form kidney stones (calculi), hypercalcemia, hypercalciuria.

Side effects: The side effects of this product are hypercalcaemia, hypercalciuria, pruritus, rash, urticaria, constipation, flatulence, nausea, abdominal pain, chronic diarrhoea (increased urination, increased thirst, loss of appetite, weight loss, kidney stones, kidney calcification, calcification may in tissues outside the bone) episodes occur.

Drug Interactions: Concomitant treatment with phenytoin or barbiturates, glucocorticoids can decrease the effect of Vitamin D₃. Simultaneous treatment with ion exchange resins such as cholestyramine or laxatives such as paraffin oil may reduce the gastrointestinal absorption of Vitamin D₃. The cytotoxic agent actinomycin and imidazole antifungal agents interfere with Vitamin D₃ activity.

Use in Pregnancy and Lactation: This high strength formulation is not recommended in Pregnancy and Lactation.

Overdose: Being fat soluble, Vitamin D₃ overdose can cause toxicity. Chronic overdoses can lead to vascular and organ calcification as a result of hypercalcaemia. Treatment should consist of stopping all intakes of Vitamin D₃ and rehydration.

Storage: Keep below 30°C., store at a cool & dry place, protect from light & moisture. Keep the medicine out of reach of children.

Packing:

D-1000 Tablet: Each box contains 5x10 tablets in blister pack.

D-2000 Tablet: Each box contains 5x10 tablets in blister pack.

D-20000 Capsule: Each box contains 1x10 capsules in blister pack.

D-40000 Capsule: Each box contains 1x10 capsules in blister pack.



Manufactured By:
The IBN SINA Pharmaceutical Industry Ltd.
Shafipur, Kaliakoir, Gazipur, Bangladesh.