

Brand Name: D-CAL SACHET

Composition: Cholecalciferol granules

Dosage Form: Powder

Category: Nutritional Supplement / Vitamin D3 Supplement

Packaging Type: Sachet

Packaging: 1 g × 20 sachets

Brief Product Introduction:

D-CAL SACHET is a high-potency **Vitamin D3 (Cholecalciferol)** supplement designed to correct and prevent Vitamin D deficiency. Manufactured by **AstraEureka Pharmaceutical**, a trusted **manufacturer of cholecalciferol composition**, it is ideal for individuals with low Vitamin D levels due to inadequate sunlight exposure, dietary insufficiency, or malabsorption disorders. It supports bone health, calcium absorption, and immune function.

Composition:

Each 1 g sachet contains:

- Cholecalciferol (Vitamin D3).....60,000 IU
- Energy.....3.6 Kcal
- Carbohydrate.....0.9 g
- Protein.....0.0 g
- Fat.....0.0 g
- Excipients.....q.s.

Key Ingredients:

- **Cholecalciferol (Vitamin D3) – 60,000 IU:** A fat-soluble vitamin essential for calcium and phosphorus metabolism, immune regulation, and bone mineralization
- **Carbohydrate Base – 0.9 g:** Provides minimal energy for powder formulation
- **Excipients – q.s.:** Stabilize and preserve the formulation

Key Benefits:

1. Corrects **Vitamin D3 deficiency**
2. Promotes **calcium absorption** in the gut and maintains adequate serum calcium and phosphate concentrations
3. Supports **healthy bones and teeth**
4. Reduces risk of **osteoporosis, rickets, and osteomalacia**

5. Plays a role in **immune system modulation** and **muscle function**
6. Helpful in **autoimmune disorders, fatigue, and general wellness**

Indications:

1. **Vitamin D3 deficiency** (confirmed by lab test or clinical signs)
2. **Osteoporosis** and osteopenia
3. **Rickets** in children and **osteomalacia** in adults
4. Adjunct in **calcium supplementation** for bone health
5. Supportive therapy in **autoimmune conditions, chronic fatigue, and muscle weakness**
6. **Pregnancy and lactation** (under medical supervision)

Directions for Use:

1. Tear one sachet and mix the contents in **lukewarm milk or water**
2. Stir well until fully dissolved
3. Consume immediately after mixing
4. Do not mix with hot beverages or acidic juices

Doses and Administration:

1. **Recommended Dose:** One sachet (60,000 IU) **once weekly**, or as directed by a physician
2. In deficiency states, duration may be **6–8 weeks**, followed by maintenance dosing
3. For **maintenance**, 1 sachet every 2–4 weeks is often sufficient
4. Always follow medical advice for pediatric and geriatric dosing

Safety Information:

1. Should be taken **under medical supervision**, especially in long-term use
2. **Do not exceed the recommended dose** to avoid Vitamin D toxicity
3. Monitor **serum calcium and Vitamin D levels** in prolonged use
4. Take with food for better absorption
5. Avoid concurrent high-dose calcium supplements unless advised

Mechanism of Action:

- **Cholecalciferol (Vitamin D3)** is converted in the liver to **25-hydroxyvitamin D**, and subsequently in the kidney to its active form **1,25-dihydroxyvitamin D (calcitriol)**.
- **Calcitriol** enhances **intestinal absorption of calcium and phosphate**, supporting **bone mineralization**

- Maintains normal parathyroid hormone (PTH) levels and reduces bone resorption
- Supports immune cell regulation and reduces inflammation
- Enhances muscle function, reducing risk of falls in elderly

Contraindications:

1. Hypercalcemia, hypervitaminosis D
2. Severe renal impairment or nephrolithiasis (kidney stones)
3. Known hypersensitivity to cholecalciferol or any component
4. Sarcoidosis or other granulomatous disorders (risk of increased vitamin D activation)

Side Effects:

1. Usually well tolerated at recommended dose
2. Excessive intake may cause:
 - Nausea, vomiting, constipation
 - Loss of appetite, excessive thirst
 - Hypercalcemia, kidney stones
3. Long-term high dosing requires monitoring of calcium and renal function

Important Notice:

- This is a **nutritional supplement**, not a substitute for a balanced diet
- Should be used in combination with **adequate calcium intake**
- Not for **parenteral use**
- Keep out of reach of children
- Take only under the supervision of a qualified healthcare provider

Storage Condition:

1. Store in a **cool, dry place below 25°C**
2. Protect from **direct sunlight and moisture**
3. Do not refrigerate
4. Use sachet immediately after opening

Packing Information:

- Each sachet contains **1 g powder**
- Outer pack contains **20 sachets**