

**ERGOCALCIFEROL- ergocalciferol capsule, liquid filled
REMEDYREPACK INC.**

Vitamin D

(Ergocalciferol Capsules, USP)

Rx only

DESCRIPTION

ERGOCALCIFEROL CAPSULES, USP, is a synthetic calcium regulator for oral administration.

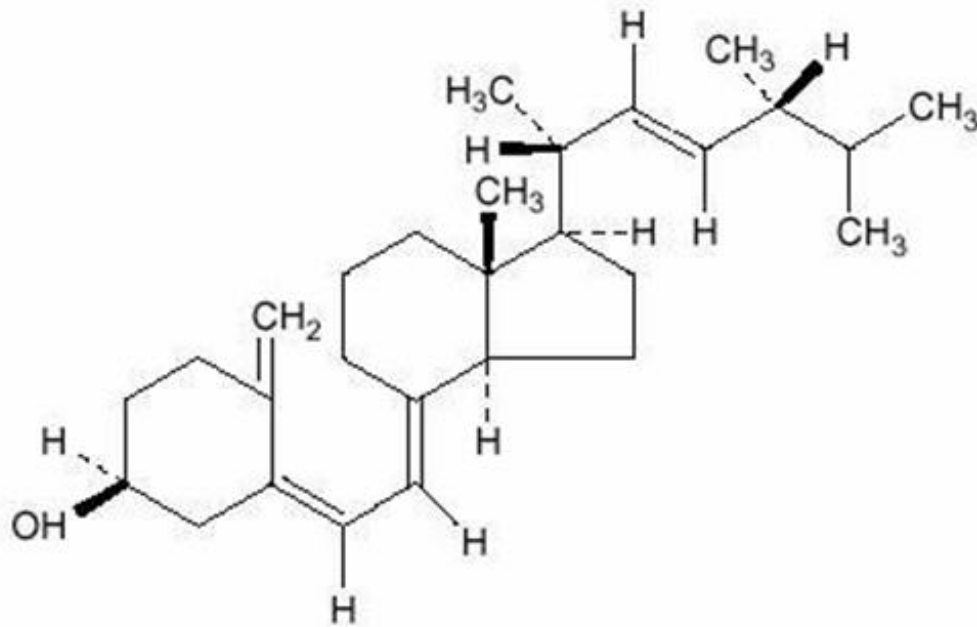
Ergocalciferol is a white, colorless crystal, insoluble in water, soluble in organic solvents, and slightly soluble in vegetable oils. It is affected by air and by light. Ergosterol or provitamin D₂ is found in plants and yeast and has no antirachitic activity.

There are more than 10 substances belonging to a group of steroid compounds, classified as having vitamin D or antirachitic activity.

One USP Unit of vitamin D₂ is equivalent to one International Unit (IU), and 1 mcg of vitamin D₂ is equal to 40 IU.

Each softgel, for oral administration, contains Ergocalciferol, USP 1,250 mcg (equivalent to 50,000 USP units of Vitamin D), in an edible vegetable oil.

Ergocalciferol, also called vitamin D₂, is 9,10-secoergosta-5,7,10(19),22-tetraen-3-ol,(3 β ,5 Z,7 E,22 E)-; (C₂₈H₄₄O) with a molecular weight of 396.65, and has the following structural formula:



Inactive Ingredients: Refined soybean oil, gelatin, glycerin, purified water, D&C Yellow #10, and FD&C Blue #1.

CLINICAL PHARMACOLOGY

The *in vivo* synthesis of the major biologically active metabolites of vitamin D occurs in two steps. The first hydroxylation of ergocalciferol takes place in the liver (to 25-hydroxyvitamin D) and the second in the kidneys (to 1,25-dihydroxyvitamin D). Vitamin D metabolites promote the active absorption of calcium and phosphorus by the small intestine, thus elevating serum calcium and phosphate levels sufficiently to permit bone mineralization. Vitamin D metabolites also mobilize calcium and phosphate from bone and probably increase the reabsorption of calcium and perhaps also of phosphate by the renal tubules.

There is a time lag of 10 to 24 hours between the administration of vitamin D and the initiation of its action in the body due to the necessity of synthesis of the active metabolites in the liver and kidneys. Parathyroid hormone is responsible for the regulation of this metabolism in the kidneys.

INDICATIONS AND USAGE

Ergocalciferol is indicated for use in the treatment of hypoparathyroidism, refractory rickets, also known as vitamin D resistant rickets, and familial hypophosphatemia.

CONTRAINDICATIONS

Ergocalciferol is contraindicated in patients with hypercalcemia, malabsorption syndrome, abnormal sensitivity to the toxic effects of vitamin D, and hypervitaminosis D.

WARNINGS

Hypersensitivity to vitamin D may be one etiologic factor in infants with idiopathic hypercalcemia. In these cases vitamin D must be strictly restricted.

Keep out of the reach of children.

PRECAUTIONS

General

Vitamin D administration from fortified foods, dietary supplements, self-administered and prescription drug sources should be evaluated. Therapeutic dosage should be readjusted as soon as there is clinical improvement. Dosage levels must be individualized and great care exercised to prevent serious toxic effects. IN VITAMIN D RESISTANT RICKETS THE RANGE BETWEEN THERAPEUTIC AND TOXIC DOSES IS NARROW. When high therapeutic doses are used progress should be followed with frequent blood calcium determinations.

In the treatment of hypoparathyroidism, intravenous calcium, parathyroid hormone, and/or dihydrotachysterol may be required.

Maintenance of a normal serum phosphorous level by dietary phosphate restriction and/or administration of aluminum gels as intestinal phosphate binders in those patients with hyperphosphatemia as frequently seen in renal osteodystrophy is essential to prevent metastatic calcification.

Adequate dietary calcium is necessary for clinical response to vitamin D therapy.

Protect from light.

Drug Interactions

Mineral oil interferes with the absorption of fat-soluble vitamins, including vitamin D preparations.

Administration of thiazide diuretics to hypoparathyroid patients who are concurrently being treated with ergocalciferol may cause hypercalcemia.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term animal studies have been performed to evaluate the drug's potential in these areas.

Pregnancy Category C

Animal reproduction studies have shown fetal abnormalities in several species associated with hypervitaminosis D. These are similar to the supravalvular aortic stenosis syndrome described in infants by Black in England (1963). This syndrome was characterized by supravalvular aortic stenosis, elfin facies, and mental retardation. For the protection of the fetus, therefore, the use of vitamin D in excess of the recommended dietary allowance during normal pregnancy should be avoided unless, in the judgment of the physician, potential benefits in a specific, unique case outweigh the significant hazards involved. The safety in excess of 400 USP units of vitamin D daily during pregnancy has not been established.

Nursing Mothers

Caution should be exercised when ergocalciferol is administered to a nursing woman. In a mother given large doses of vitamin D, 25-hydroxycholecalciferol appeared in the milk and caused hypercalcemia in her child. Monitoring of the infant's serum calcium concentration is required in that case (Goldberg, 1972).

Pediatric Use

Pediatric doses must be individualized (see **DOSAGE AND ADMINISTRATION**).

Geriatric Use

Clinical studies of Ergocalciferol capsules, USP did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. A few published reports have suggested that the absorption of orally administered vitamin D may be attenuated in elderly compared to younger individuals. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

ADVERSE REACTIONS

Hypervitaminosis D is characterized by effects on the following organ system:

Renal: Impairment of renal function with polyuria, nocturia, polydipsia, hypercalciuria, reversible azotemia, hypertension, nephrocalcinosis, generalized vascular calcification, or irreversible renal insufficiency which may result in death.

CNS: Mental retardation.

Soft Tissues: Widespread calcification of the soft tissues, including the heart, blood vessels, renal tubules, and lungs.

Skeletal: Bone demineralization (osteoporosis) in adults occurs concomitantly.

Decline in the average rate of linear growth and increased mineralization of bones in infants and children (dwarfism), vague aches, stiffness, and weakness.

Gastrointestinal: Nausea, anorexia, constipation.

Metabolic: Mild acidosis, anemia, weight loss.

To report SUSPECTED ADVERSE REACTIONS, contact Bionpharma Inc. at 1-888-235-2466 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

The effects of administered vitamin D can persist for two or more months after cessation of treatment.

Hypervitaminosis D is characterized by:

1. Hypercalcemia with anorexia, nausea, weakness, weight loss, vague aches and

- stiffness, constipation, mental retardation, anemia, and mild acidosis.
2. Impairment of renal function with polyuria, nocturia, polydipsia, hypercalciuria, reversible azotemia, hypertension, nephrocalcinosis, generalized vascular calcification, or irreversible renal insufficiency which may result in death.
 3. Widespread calcification of the soft tissues, including the heart, blood vessels, renal tubules, and lungs. Bone demineralization (osteoporosis) in adults occurs concomitantly.
 4. Decline in the average rate of linear growth and increased mineralization of bones in infants and children (dwarfism).

The treatment of hypervitaminosis D with hypercalcemia consists in immediate withdrawal of the vitamin, a low calcium diet, generous intake of fluids, along with symptomatic and supportive treatment. Hypercalcemic crisis with dehydration, stupor, coma, and azotemia requires more vigorous treatment. The first step should be hydration of the patient. Intravenous saline may quickly and significantly increase urinary calcium excretion. A loop diuretic (furosemide or ethacrynic acid) may be given with the saline infusion to further increase renal calcium excretion. Other reported therapeutic measures include dialysis or the administration of citrates, sulfates, phosphates, corticosteroids, EDTA (ethylenediaminetetraacetic acid), and mithramycin via appropriate regimens. With appropriate therapy, recovery is the usual outcome when no permanent damage has occurred. Deaths via renal or cardiovascular failure have been reported.

The LD₅₀ in animals is unknown. The toxic oral dose of ergocalciferol in the dog is 4 mg/kg.

DOSAGE AND ADMINISTRATION

THE RANGE BETWEEN THERAPEUTIC AND TOXIC DOSES IS NARROW.

Vitamin D Resistant Rickets: 12,000 to 500,000 USP units daily.

Hypoparathyroidism: 50,000 to 200,000 USP units daily concomitantly with calcium lactate 4 g, six times per day.

DOSAGE MUST BE INDIVIDUALIZED UNDER CLOSE MEDICAL SUPERVISION.

Calcium intake should be adequate. Blood calcium and phosphorous determinations must be made every 2 weeks or more frequently if necessary. X-rays of the bones should be taken every month until condition is corrected and stabilized.

HOW SUPPLIED

Each green, oval softgel is imprinted with PA140 and contains 1,250 mcg (50,000 USP units vitamin D) of ergocalciferol, USP, and is available in

NDC: 70518-0177-00

NDC: 70518-0177-01

NDC: 70518-0177-02

NDC: 70518-0177-03

NDC: 70518-0177-04

PACKAGING: 4 in 1 BOTTLE PLASTIC

PACKAGING: 12 in 1 BOTTLE PLASTIC

PACKAGING: 4 in 1 BLISTER PACK

PACKAGING: 100 in 1 BOX

PACKAGING: 1 in 1 POUCH

Store at 25° C (77° F); excursions permitted to 15° to 30° C (59° to 86° F) [See USP Controlled Room Temperature].

Protect from light and moisture.

Dispense in a tight, light-resistant container as defined in the USP.

Repackaged and Distributed By:

Remedy Repack, Inc.

625 Kolter Dr. Suite #4 Indiana, PA 1-724-465-8762

DRUG: Ergocalciferol

GENERIC: Ergocalciferol

DOSAGE: CAPSULE, LIQUID FILLED

ADMINISTRATION: ORAL

NDC: 70518-0177-0

NDC: 70518-0177-1

NDC: 70518-0177-2

NDC: 70518-0177-3

NDC: 70518-0177-4

COLOR: green

SHAPE: OVAL

SCORE: No score

SIZE: 13 mm

IMPRINT: PA140

PACKAGING: 4 in 1 BOTTLE PLASTIC

PACKAGING: 12 in 1 BOTTLE PLASTIC

PACKAGING: 4 in 1 BLISTER PACK

PACKAGING: 100 in 1 BOX

PACKAGING: 1 in 1 POUCH

ACTIVE INGREDIENT(S):

- ERGOCALCIFEROL 1.25mg in 1

INACTIVE INGREDIENT(S):

- SOYBEAN OIL
- GELATIN
- GLYCERIN
- WATER
- D&C YELLOW NO. 10
- FD&C BLUE NO. 1

Vitamin D

Ergocalciferol

(50,000 USP Units)

Capsule

QTY: 4



RX ONLY

NDC #: 70518-0177-00

Expires:

LOT #:

Source NDC: 69452-0151-20

MFG: Bionpharma Inc., Princeton, NJ 08540

Keep this and all medication out of the reach of children

Directions For Use: See Package Insert

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

Repackaged by: RemedyRepack Inc., Indiana, PA 15701, 724.465.8762



Vitamin D

Ergocalciferol

(50,000 USP Units)

Capsule

QTY: 12



RX ONLY

NDC #: 70518-0177-01

Expires:

LOT #:

Source NDC: 69452-0151-20

MFG: Bionpharma Inc., Princeton, NJ 08540

Keep this and all medication out of the reach of children

Directions For Use: See Package Insert

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

Repackaged by: RemedyRepack Inc., Indiana, PA 15701, 724.465.8762



Vitamin D

Ergocalciferol

(50,000 USP Units)

Capsule

QTY: 4



RX ONLY

NDC #: 70518-0177-02

Expires:

LOT #:

Source NDC: 69452-0151-20

MFG: Bionpharma Inc., Princeton, NJ 08540

Keep this and all medication out of the reach of children



Directions For Use: See Package Insert

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

Repackaged by: RemedyRepack Inc., Indiana, PA 15701, 724.465.8762

Vitamin D

Ergocalciferol

1,250mcg (50,000 USP Units)

Capsule

QTY: 100



RX ONLY

NDC #: 70518-0177-03

Expires:

LOT #:

Source NDC: 69452-0151-20

MFG: Bionpharma Inc., Princeton, NJ 08540

Keep this and all medication out of the reach of children



Directions For Use: See Package Insert

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

Repackaged by: RemedyRepack Inc., Indiana, PA 15701, 724.465.8762

Vitamin D

Ergocalciferol

1,250mcg (50,000 USP Units)

Capsule

QTY: 1



RX ONLY

NDC #: 70518-0177-04

Expires:

LOT #:

Source NDC: 69452-0151-20

MFG: Bionpharma Inc., Princeton, NJ 08540

Keep this and all medication out of the reach of children



Directions For Use: See Package Insert

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [See USP]

Repackaged by: RemedyRepack Inc., Indiana, PA 15701, 724.465.8762

ERGOCALCIFEROL

ergocalciferol capsule, liquid filled

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70518-0177(NDC:69452-151)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ERGOCALCIFEROL (UNII: VS041H42XC) (ERGOCALCIFEROL - UNII:VS041H42XC)	ERGOCALCIFEROL	1.25 mg

Inactive Ingredients

Ingredient Name	Strength
SOYBEAN OIL (UNII: 241ATL177A)	
GELATIN (UNII: 2G86QN327L)	
GLYCERIN (UNII: PDC6A3C0OX)	
WATER (UNII: 059QF0KO0R)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	

Product Characteristics

Color	green	Score	no score
Shape	OVAL	Size	13mm
Flavor		Imprint Code	PA140
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70518-0177-0	4 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	01/25/2017	01/22/2019
2	NDC:70518-0177-1	12 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	05/11/2018	07/31/2018
3	NDC:70518-0177-2	4 in 1 BLISTER PACK; Type 0: Not a Combination Product	06/09/2021	
4	NDC:70518-0177-3	100 in 1 BOX	03/15/2022	
4	NDC:70518-0177-4	1 in 1 POUCH; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
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ANDA

ANDA080704

01/25/2017

Labeler - REMEDYREPACK INC. (829572556)

Revised: 5/2022

REMEDYREPACK INC.