

LEVOTHYROXINE SODIUM- levothyroxine sodium tablet

Bryant Ranch Prepack

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use LEVOTHYROXINE SODIUM TABLETS safely and effectively. See full prescribing information for LEVOTHYROXINE SODIUM TABLETS.

LEVOTHYROXINE SODIUM tablets, for oral use
Initial U.S. Approval: 2002

WARNING: NOT FOR TREATMENT OF OBESITY OR FOR WEIGHT LOSS

See full prescribing information for complete boxed warning

- **Thyroid hormones, including Levothyroxine Sodium Tablets should not be used for the treatment of obesity or for weight loss.**
- **Doses beyond the range of daily hormonal requirements may produce serious or even life threatening manifestations of toxicity (6, 10).**

INDICATIONS AND USAGE

Levothyroxine Sodium Tablets are L-thyroxine (T4) indicated for:

- Hypothyroidism: As replacement therapy in primary (thyroidal), secondary (pituitary), and tertiary (hypothalamic) congenital or acquired hypothyroidism. (1)
- Pituitary Thyrotropin (Thyroid-Stimulating Hormone, TSH) Suppression: As an adjunct to surgery and radioiodine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer. (1)

Limitations of Use:

- Not indicated for suppression of benign thyroid nodules and nontoxic diffuse goiter in iodine-sufficient patients.
- Not indicated for treatment of hypothyroidism during the recovery phase of subacute thyroiditis.

DOSAGE AND ADMINISTRATION

- Administer once daily, preferably on an empty stomach, one-half to one hour before breakfast. (2.1)
- Administer at least 4 hours before or after drugs that are known to interfere with absorption. (2.1)
- Evaluate the need for dose adjustments when regularly administering within one hour of certain foods that may affect absorption. (2.1)
- Starting dose depends on a variety of factors, including age, body weight, cardiovascular status, and concomitant medications. Peak therapeutic effect may not be attained for 4-6 weeks. (2.2)
- See full prescribing information for dosing in specific patient populations. (2.3)
- Adequacy of therapy determined with periodic monitoring of TSH and/or T4 as well as clinical status. (2.4)

DOSAGE FORMS AND STRENGTHS

Tablets: 25 mcg, 50 mcg, 75 mcg, 88 mcg, 100 mcg, 112 mcg, 125 mcg, 137 mcg, 150 mcg, 175 mcg, 200 mcg, and 300 mcg (3)

CONTRAINDICATIONS

- Uncorrected adrenal insufficiency. (4)

WARNINGS AND PRECAUTIONS

- *Cardiac adverse reactions in the elderly and in patients with underlying cardiovascular disease:* Initiate Levothyroxine Sodium Tablets at less than the full replacement dose because of the increased risk of cardiac adverse reactions, including atrial fibrillation. (2.3, 5.1, 8.5)
- *Myxedema coma:* Do not use oral thyroid hormone drug products to treat myxedema coma. (5.2)
- *Acute adrenal crisis in patients with concomitant adrenal insufficiency:* Treat with replacement glucocorticoids prior to initiation of Levothyroxine Sodium Tablets treatment. (5.3)
- *Prevention of hyperthyroidism or incomplete treatment of hypothyroidism:* Proper dose titration and careful monitoring is critical to prevent the persistence of hypothyroidism or the development of hyperthyroidism. (5.4)
- *Worsening of diabetic control:* Therapy in patients with diabetes mellitus may worsen glycemic control

and result in increased antidiabetic agent or insulin requirements. Carefully monitor glycemic control after starting, changing, or discontinuing thyroid hormone therapy. (5.5)

- *Decreased bone mineral density associated with thyroid hormone over-replacement:* Over-replacement can increase bone resorption and decrease bone mineral density. Give the lowest effective dose. (5.6)

ADVERSE REACTIONS

Adverse reactions associated with Levothyroxine Sodium Tablets therapy are primarily those of hyperthyroidism due to therapeutic overdosage: arrhythmias, myocardial infarction, dyspnea, muscle spasm, headache, nervousness, irritability, insomnia, tremors, muscle weakness, increased appetite, weight loss, diarrhea, heat intolerance, menstrual irregularities, and skin rash. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Alvogen, Inc. at 1-866-770-3024 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

See full prescribing information for drugs that affect thyroid hormone pharmacokinetics and metabolism (e.g., absorption, synthesis, secretion, catabolism, protein binding, and target tissue response) and may alter the therapeutic response to Levothyroxine Sodium Tablets. (7)

USE IN SPECIFIC POPULATIONS

Pregnancy may require the use of higher doses of Levothyroxine Sodium Tablets. (2.3, 8.1)

See 17 for PATIENT COUNSELING INFORMATION.

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FULL PRESCRIBING INFORMATION

WARNING: NOT FOR TREATMENT OF OBESITY OR FOR WEIGHT LOSS

Thyroid hormones, including Levothyroxine Sodium Tablets, either alone or with other therapeutic agents, should not be used for the treatment of obesity or for weight loss.

In euthyroid patients, doses within the range of daily hormonal requirements are ineffective for weight reduction.

Larger doses may produce serious or even life threatening manifestations of toxicity, particularly when given in association with sympathomimetic amines such as those used for their anorectic effects[see *Adverse Reactions (6)*, *Drug Interactions (7.7)*, and *Overdosage (10)*].

1 INDICATIONS AND USAGE

Hypothyroidism

Levothyroxine Sodium Tablets are indicated as a replacement therapy in primary (thyroidal), secondary (pituitary), and tertiary (hypothalamic) congenital or acquired hypothyroidism.

Pituitary Thyrotropin (Thyroid-Stimulating Hormone, TSH) Suppression

Levothyroxine Sodium Tablets are indicated as an adjunct to surgery and radioiodine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer.

Limitations of Use:

- Levothyroxine Sodium Tablets are not indicated for suppression of benign thyroid nodules and nontoxic diffuse goiter in iodine-sufficient patients as there are no clinical benefits and overtreatment with Levothyroxine Sodium Tablets may induce hyperthyroidism [see *Warnings and Precautions (5.4)*].
- Levothyroxine Sodium Tablets are not indicated for treatment of hypothyroidism during the recovery phase of subacute thyroiditis.

2 DOSAGE AND ADMINISTRATION

2.1 General Administration Information

Administer Levothyroxine Sodium Tablets as a single daily dose, on an empty stomach, one-half to one hour before breakfast.

Administer Levothyroxine Sodium Tablets at least 4 hours before or after drugs known to interfere with Levothyroxine Sodium Tablets absorption [see *Drug Interactions (7.1)*].

Evaluate the need for dose adjustments when regularly administering within one hour of certain foods that may affect Levothyroxine Sodium Tablets absorption [see *Drug Interactions (7.9)* and *Clinical Pharmacology (12.3)*].

Administer Levothyroxine Sodium Tablets to infants and children who cannot swallow intact tablets by crushing the tablet, suspending the freshly crushed tablet in a small amount (5 mL to 10 mL or 1 teaspoon to 2 teaspoons) of water and immediately administering the suspension by spoon or dropper. Do not store the suspension. Do not administer in foods that decrease absorption of Levothyroxine Sodium Tablets, such as soybean-based infant formula [see *Drug Interactions (7.9)*].

2.2 General Principles of Dosing

The dose of Levothyroxine Sodium Tablets for hypothyroidism or pituitary TSH suppression depends on a variety of factors including: the patient's age, body weight, cardiovascular status, concomitant medical conditions (including pregnancy), concomitant medications, co-administered food and the specific nature of the condition being treated [see *Dosage and Administration (2.3)*, *Warnings and Precautions (5)*, and *Drug Interactions (7)*]. Dosing must be individualized to account for these factors and dose adjustments made based on periodic assessment of the patient's clinical response and laboratory parameters [see *Dosage and Administration (2.4)*].

The peak therapeutic effect of a given dose of Levothyroxine Sodium Tablets may not be attained for 4 to 6 weeks.

2.3 Dosing in Specific Patient Populations

Primary Hypothyroidism in Adults and in Adolescents in Whom Growth and Puberty are Complete

Start Levothyroxine Sodium Tablets at the full replacement dose in otherwise healthy, non-elderly individuals who have been hypothyroid for only a short time (such as a few

months). The average full replacement dose of Levothyroxine Sodium Tablets is approximately 1.6 mcg per kg per day (for example: 100 mcg per day to 125 mcg per day for a 70 kg adult).

Adjust the dose by 12.5 mcg to 25 mcg increments every 4 to 6 weeks until the patient is clinically euthyroid and the serum TSH returns to normal. Doses greater than 200 mcg per day are seldom required. An inadequate response to daily doses of greater than 300 mcg per day is rare and may indicate poor compliance, malabsorption, drug interactions, or a combination of these factors.

For elderly patients or patients with underlying cardiac disease, start with a dose of 12.5 mcg per day to 25 mcg per day. Increase the dose every 6 to 8 weeks, as needed until the patient is clinically euthyroid and the serum TSH returns to normal. The full replacement dose of Levothyroxine Sodium Tablets may be less than 1 mcg per kg per day in elderly patients.

In patients with severe longstanding hypothyroidism, start with a dose of 12.5 mcg per day to 25 mcg per day. Adjust the dose in 12.5 mcg to 25 mcg increments every 2 to 4 weeks until the patient is clinically euthyroid and the serum TSH level is normalized.

Secondary or Tertiary Hypothyroidism

Start Levothyroxine Sodium Tablets at the full replacement dose in otherwise healthy, non-elderly individuals. Start with a lower dose in elderly patients, patients with underlying cardiovascular disease or patients with severe longstanding hypothyroidism as described above. Serum TSH is not a reliable measure of Levothyroxine Sodium Tablets dose adequacy in patients with secondary or tertiary hypothyroidism and should not be used to monitor therapy. Use the serum free-T4 (L-thyroxine) level to monitor adequacy of therapy in this patient population. Titrate Levothyroxine Sodium Tablets dosing per above instructions until the patient is clinically euthyroid and the serum free-T4 level is restored to the upper half of the normal range.

Pediatric Dosage - Congenital or Acquired Hypothyroidism

The recommended daily dose of Levothyroxine Sodium Tablets in pediatric patients with hypothyroidism is based on body weight and changes with age as described in Table 1. Start Levothyroxine Sodium Tablets at the full daily dose in most pediatric patients. Start at a lower starting dose in newborns (0-3 months) at risk for cardiac failure and in children at risk for hyperactivity (see below). Monitor for clinical and laboratory response [see *Dosage and Administration (2.4)*].

Table 1. Levothyroxine Sodium Tablets Dosing Guidelines for Pediatric Hypothyroidism

AGE	Daily Dose Per Kg Body Weight*
0-3 months	10 mcg/kg/day to 15 mcg/kg/day
3-6 months	8 mcg/kg/day to 10 mcg/kg/day
6-12 months	6 mcg/kg/day to 8 mcg/kg/day
	5 mcg/kg/day to 6

1-5 years	5 mcg/kg/day to 6 mcg/kg/day
6-12 years	4 mcg/kg/day to 5 mcg/kg/day
Greater than 12 years but growth and puberty incomplete	2 mcg/kg/day to 3 mcg/kg/day
Growth and puberty complete	1.6 mcg/kg/day

* The dose should be adjusted based on clinical response and laboratory parameters [see *Dosage and Administration (2.4)* and *Use in Specific Populations (8.4)*].

Newborns (0-3 months) at risk for cardiac failure: Consider a lower starting dose in newborns at risk for cardiac failure. Increase the dose every 4 to 6 weeks as needed based on clinical and laboratory response.

Children at risk for hyperactivity: To minimize the risk of hyperactivity in children, start at one-fourth the recommended full replacement dose, and increase on a weekly basis by one-fourth the full recommended replacement dose until the full recommended replacement dose is reached.

Pregnancy

Pre-existing Hypothyroidism: Levothyroxine Sodium Tablets dose requirements may increase during pregnancy. Measure serum TSH and free-T4 as soon as pregnancy is confirmed and, at minimum, during each trimester of pregnancy. In patients with primary hypothyroidism, maintain serum TSH in the trimester-specific reference range. For patients with serum TSH above the normal trimester-specific range, increase the dose of Levothyroxine Sodium Tablets by 12.5 mcg/day to 25 mcg/day and measure TSH every 4 weeks until a stable Levothyroxine Sodium Tablets dose is reached and serum TSH is within the normal trimester-specific range. Reduce Levothyroxine Sodium Tablets dosage to pre-pregnancy levels immediately after delivery and measure serum TSH levels 4 to 8 weeks postpartum to ensure Levothyroxine Sodium Tablets dose is appropriate.

New Onset Hypothyroidism: Normalize thyroid function as rapidly as possible. In patients with moderate to severe signs and symptoms of hypothyroidism, start Levothyroxine Sodium Tablets at the full replacement dose (1.6 mcg per kg body weight per day). In patients with mild hypothyroidism (TSH less than 10 units per liter) start Levothyroxine Sodium Tablets at 1 mcg per kg body weight per day. Evaluate serum TSH every 4 weeks and adjust Levothyroxine Sodium Tablets dosage until a serum TSH is within the normal trimester specific range [see *Use in Specific Populations (8.1)*].

TSH Suppression in Well-differentiated Thyroid Cancer

Generally, TSH is suppressed to below 0.1 units per liter, and this usually requires a Levothyroxine Sodium Tablets dose of greater than 2 mcg per kg per day. However, in patients with high-risk tumors, the target level for TSH suppression may be lower.

2.4 Monitoring TSH and/or Thyroxine (T4) Levels

Assess the adequacy of therapy by periodic assessment of laboratory tests and clinical evaluation. Persistent clinical and laboratory evidence of hypothyroidism despite an apparent adequate replacement dose of Levothyroxine Sodium Tablets may be evidence

of inadequate absorption, poor compliance, drug interactions, or a combination of these factors.

Adults

In adult patients with primary hypothyroidism, monitor serum TSH levels after an interval of 6 to 8 weeks after any change in dose. In patients on a stable and appropriate replacement dose, evaluate clinical and biochemical response every 6 to 12 months and whenever there is a change in the patient's clinical status.

Pediatrics

In patients with congenital hypothyroidism, assess the adequacy of replacement therapy by measuring both serum TSH and total or free-T4. Monitor TSH and total or free-T4 in children as follows: 2 and 4 weeks after the initiation of treatment, 2 weeks after any change in dosage, and then every 3 to 12 months thereafter following dose stabilization until growth is completed. Poor compliance or abnormal values may necessitate more frequent monitoring. Perform routine clinical examination, including assessment of development, mental and physical growth, and bone maturation, at regular intervals.

While the general aim of therapy is to normalize the serum TSH level, TSH may not normalize in some patients due to in utero hypothyroidism causing a resetting of pituitary-thyroid feedback. Failure of the serum T4 to increase into the upper half of the normal range within 2 weeks of initiation of Levothyroxine Sodium Tablets therapy and/or of the serum TSH to decrease below 20 units per liter within 4 weeks may indicate the child is not receiving adequate therapy. Assess compliance, dose of medication administered, and method of administration prior to increasing the dose of Levothyroxine Sodium Tablets [see *Warnings and Precautions (5.4)* and *Use in Specific Populations (8.4)*].

Secondary and Tertiary Hypothyroidism

Monitor serum free-T4 levels and maintain in the upper half of the normal range in these patients.

3 DOSAGE FORMS AND STRENGTHS

Levothyroxine Sodium Tablets, in the shape of caplet are available as follows:

Tablet Strength	Tablet Color	Tablet Markings
25 mcg	Orange	"T 4" and "25"
50 mcg	White	"T 4" and "50"
75 mcg	Violet	"T 4" and "75"
88 mcg	Mint Green	"T 4" and "88"
100 mcg	Yellow	"T 4" and "100"
112 mcg	Rose	"T 4" and "112"
125 mcg	Brown	"T 4" and "125"
137 mcg	Deep Blue	"T 4" and "137"
150 mcg	Light Blue	"T 4" and "150"
175 mcg	Lilac	"T 4" and "175"

200 mcg	Pink	"T 4" and "200"
300 mcg	Green	"T 4" and "300"

4 CONTRAINDICATIONS

Levothyroxine Sodium Tablets are contraindicated in patients with uncorrected adrenal insufficiency [see *Warnings and Precautions (5.3)*].

5 WARNINGS AND PRECAUTIONS

5.1 Cardiac Adverse Reactions in the Elderly and in Patients with Underlying Cardiovascular Disease

Over-treatment with levothyroxine may cause an increase in heart rate, cardiac wall thickness, and cardiac contractility and may precipitate angina or arrhythmias, particularly in patients with cardiovascular disease and in elderly patients. Initiate Levothyroxine Sodium Tablets therapy in this population at lower doses than those recommended in younger individuals or in patients without cardiac disease [see *Dosage and Administration (2.3)*, *Use in Specific Populations (8.5)*].

Monitor for cardiac arrhythmias during surgical procedures in patients with coronary artery disease receiving suppressive Levothyroxine Sodium Tablets therapy. Monitor patients receiving concomitant Levothyroxine Sodium Tablets and sympathomimetic agents for signs and symptoms of coronary insufficiency.

If cardiac symptoms develop or worsen, reduce the Levothyroxine Sodium Tablets dose or withhold for one week and restart at a lower dose.

5.2 Myxedema Coma

Myxedema coma is a life-threatening emergency characterized by poor circulation and hypometabolism, and may result in unpredictable absorption of levothyroxine sodium from the gastrointestinal tract. Use of oral thyroid hormone drug products is not recommended to treat myxedema coma. Administer thyroid hormone products formulated for intravenous administration to treat myxedema coma.

5.3 Acute Adrenal Crisis in Patients with Concomitant Adrenal Insufficiency

Thyroid hormone increases metabolic clearance of glucocorticoids. Initiation of thyroid hormone therapy prior to initiating glucocorticoid therapy may precipitate an acute adrenal crisis in patients with adrenal insufficiency. Treat patients with adrenal insufficiency with replacement glucocorticoids prior to initiating treatment with Levothyroxine Sodium Tablets [see *Contraindications (4)*].

5.4 Prevention of Hyperthyroidism or Incomplete Treatment of Hypothyroidism

Levothyroxine Sodium Tablets have a narrow therapeutic index. Over- or undertreatment with Levothyroxine Sodium Tablets may have negative effects on growth and development, cardiovascular function, bone metabolism, reproductive function, cognitive function, emotional state, gastrointestinal function, and glucose and

lipid metabolism. Titrate the dose of Levothyroxine Sodium Tablets carefully and monitor response to titration to avoid these effects [see *Dosage and Administration (2.4)*]. Monitor for the presence of drug or food interactions when using Levothyroxine Sodium Tablets and adjust the dose as necessary [see *Drug Interactions (7.9)* and *Clinical Pharmacology (12.3)*].

5.5 Worsening of Diabetic Control

Addition of levothyroxine therapy in patients with diabetes mellitus may worsen glycemic control and result in increased antidiabetic agent or insulin requirements. Carefully monitor glycemic control after starting, changing, or discontinuing Levothyroxine Sodium Tablets [see *Drug Interactions (7.2)*].

5.6 Decreased Bone Mineral Density Associated with Thyroid Hormone Over-Replacement

Increased bone resorption and decreased bone mineral density may occur as a result of levothyroxine over-replacement, particularly in post-menopausal women. The increased bone resorption may be associated with increased serum levels and urinary excretion of calcium and phosphorous, elevations in bone alkaline phosphatase, and suppressed serum parathyroid hormone levels. Administer the minimum dose of Levothyroxine Sodium Tablets that achieves the desired clinical and biochemical response to mitigate this risk.

6 ADVERSE REACTIONS

Adverse reactions associated with Levothyroxine Sodium Tablets therapy are primarily those of hyperthyroidism due to therapeutic overdosage [see *Warnings and Precautions (5)*, *Overdosage (10)*]. They include the following:

- *General*: fatigue, increased appetite, weight loss, heat intolerance, fever, excessive sweating
- *Central nervous system*: headache, hyperactivity, nervousness, anxiety, irritability, emotional lability, insomnia
- *Musculoskeletal*: tremors, muscle weakness, muscle spasm
- *Cardiovascular*: palpitations, tachycardia, arrhythmias, increased pulse and blood pressure, heart failure, angina, myocardial infarction, cardiac arrest
- *Respiratory*: dyspnea
- *Gastrointestinal*: diarrhea, vomiting, abdominal cramps, elevations in liver function tests
- *Dermatologic*: hair loss, flushing, rash
- *Endocrine*: decreased bone mineral density
- *Reproductive*: menstrual irregularities, impaired fertility

Seizures have been reported rarely with the institution of levothyroxine therapy.

Adverse Reactions in Children

Pseudotumor cerebri and slipped capital femoral epiphysis have been reported in children receiving levothyroxine therapy. Overtreatment may result in craniosynostosis in infants and premature closure of the epiphyses in children with resultant compromised adult height.

Hypersensitivity Reactions

Hypersensitivity reactions to inactive ingredients have occurred in patients treated with thyroid hormone products. These include urticaria, pruritus, skin rash, flushing, angioedema, various gastrointestinal symptoms (abdominal pain, nausea, vomiting and diarrhea), fever, arthralgia, serum sickness, and wheezing. Hypersensitivity to levothyroxine itself is not known to occur.

7 DRUG INTERACTIONS

7.1 Drugs Known to Affect Thyroid Hormone Pharmacokinetics

Many drugs can exert effects on thyroid hormone pharmacokinetics and metabolism (e.g., absorption, synthesis, secretion, catabolism, protein binding, and target tissue response) and may alter the therapeutic response to Levothyroxine Sodium Tablets (see Tables 2-5 below).

**Table 2. Drugs That May Decrease T4 Absorption
(Hypothyroidism)**

Potential impact: Concurrent use may reduce the efficacy of Levothyroxine Sodium Tablets by binding and delaying or preventing absorption, potentially resulting in hypothyroidism.	
Drug or Drug Class	Effect
Calcium Carbonate Ferrous Sulfate	Calcium carbonate may form an insoluble chelate with levothyroxine, and ferrous sulfate likely forms a ferric-thyroxine complex. Administer Levothyroxine Sodium Tablets at least 4 hours apart from these agents.
Orlistat	Monitor patients treated concomitantly with orlistat and Levothyroxine Sodium Tablets for changes in thyroid function.
Bile Acid Sequestrants - Colesevelam - Cholestyramine - Colestipol Ion Exchange Resins - Kayexalate - Sevelamer	Bile acid sequestrants and ion exchange resins are known to decrease levothyroxine absorption. Administer Levothyroxine Sodium Tablets at least 4 hours prior to these drugs or monitor TSH levels.
Other drugs: Proton Pump Inhibitors Sucralfate Antacids - Aluminum & Magnesium Hydroxides	Gastric acidity is an essential requirement for adequate absorption of levothyroxine. Sucralfate, antacids and proton pump inhibitors may cause hypochlorhydria, affect intragastric pH, and reduce levothyroxine absorption. Monitor patients appropriately.

- Simethicone	
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Table 3. Drugs That May Alter T4 and Triiodothyronine (T3) Serum Transport Without Affecting Free Thyroxine (FT4) Concentration (Euthyroidism)

Drug or Drug Class	Effect
Clofibrate Estrogen-containing oral contraceptives Estrogens (oral) Heroin / Methadone 5-Fluorouracil Mitotane Tamoxifen	These drugs may increase serum thyroxine-binding globulin (TBG) concentration.
Androgens / Anabolic Steroids Asparaginase Glucocorticoids Slow-Release Nicotinic Acid	These drugs may decrease serum TBG concentration.
Potential impact (below): Administration of these agents with Levothyroxine Sodium Tablets results in an initial transient increase in FT4. Continued administration results in a decrease in serum T4 and normal FT4 and TSH concentrations.	
Salicylates (greater than 2 g/day)	Salicylates inhibit binding of T4 and T3 to TBG and transthyretin. An initial increase in serum FT4 is followed by return of FT4 to normal levels with sustained therapeutic serum salicylate concentrations, although total T4 levels may decrease by as much as 30%.
Other drugs: Carbamazepine Furosemide (greater than 80 mg IV) Heparin Hydantoins Non-Steroidal Anti-inflammatory Drugs - Fenamates	These drugs may cause protein-binding site displacement. Furosemide has been shown to inhibit the protein binding of T4 to TBG and albumin, causing an increase free T4 fraction in serum. Furosemide competes for T4-binding sites on TBG, prealbumin, and albumin, so that a single high dose can acutely lower the total T4 level. Phenytoin and carbamazepine reduce serum protein binding of levothyroxine, and total and free T4 may be reduced by 20% to 40%, but most patients have normal serum TSH levels and are clinically euthyroid. Closely monitor thyroid hormone parameters.

Table 4. Drugs That May Alter Hepatic Metabolism of T4 (Hypothyroidism)

Potential impact: Stimulation of hepatic microsomal drug-metabolizing enzyme activity may cause increased hepatic degradation of levothyroxine, resulting in increased Levothyroxine Sodium Tablets requirements.

Drug or Drug Class	Effect
Phenobarbital Rifampin	Phenobarbital has been shown to reduce the response to thyroxine. Phenobarbital increases L-thyroxine metabolism by inducing uridine 5'-diphospho-glucuronosyltransferase (UGT) and leads to a lower T4 serum levels. Changes in thyroid status may occur if barbiturates are added or withdrawn from patients being treated for hypothyroidism. Rifampin has been shown to accelerate the metabolism of levothyroxine.

Table 5. Drugs That May Decrease Conversion of T4 to T3

Potential impact: Administration of these enzyme inhibitors decreases the peripheral conversion of T4 to T3, leading to decreased T3 levels. However, serum T4 levels are usually normal but may occasionally be slightly increased.

Drug or Drug Class	Effect
Beta-adrenergic antagonists (e.g., Propranolol greater than 160 mg/day)	In patients treated with large doses of propranolol (greater than 160 mg/day), T3 and T4 levels change, TSH levels remain normal, and patients are clinically euthyroid. Actions of particular beta-adrenergic antagonists may be impaired when a hypothyroid patient is converted to the euthyroid state.
Glucocorticoids (e.g., Dexamethasone <u>greater than or equal to</u> 4 mg/day)	Short-term administration of large doses of glucocorticoids may decrease serum T3 concentrations by 30% with minimal change in serum T4 levels. However, long-term glucocorticoid therapy may result in slightly decreased T3 and T4 levels due to decreased TBG production (See above).
Other drugs: Amiodarone	Amiodarone inhibits peripheral conversion of levothyroxine (T4) to triiodothyronine (T3) and may cause isolated biochemical changes (increase in serum free-T4, and decreased or normal free-T3) in clinically euthyroid patients.

7.2 Antidiabetic Therapy

Addition of Levothyroxine Sodium Tablets therapy in patients with diabetes mellitus may worsen glycemic control and result in increased antidiabetic agent or insulin requirements. Carefully monitor glycemic control, especially when thyroid therapy is

started, changed, or discontinued [see *Warnings and Precautions (5.5)*].

7.3 Oral Anticoagulants

Levothyroxine Sodium Tablets increase the response to oral anticoagulant therapy. Therefore, a decrease in the dose of anticoagulant may be warranted with correction of the hypothyroid state or when the Levothyroxine Sodium Tablets dose is increased. Closely monitor coagulation tests to permit appropriate and timely dosage adjustments.

7.4 Digitalis Glycosides

Levothyroxine Sodium Tablets may reduce the therapeutic effects of digitalis glycosides. Serum digitalis glycoside levels may decrease when a hypothyroid patient becomes euthyroid, necessitating an increase in the dose of digitalis glycosides.

7.5 Antidepressant Therapy

Concurrent use of tricyclic (e.g., amitriptyline) or tetracyclic (e.g., maprotiline) antidepressants and Levothyroxine Sodium Tablets may increase the therapeutic and toxic effects of both drugs, possibly due to increased receptor sensitivity to catecholamines. Toxic effects may include increased risk of cardiac arrhythmias and central nervous system stimulation. Levothyroxine Sodium Tablets may accelerate the onset of action of tricyclics. Administration of sertraline in patients stabilized on Levothyroxine Sodium Tablets may result in increased Levothyroxine Sodium Tablets requirements.

7.6 Ketamine

Concurrent use of ketamine and Levothyroxine Sodium Tablets may produce marked hypertension and tachycardia. Closely monitor blood pressure and heart rate in these patients.

7.7 Sympathomimetics

Concurrent use of sympathomimetics and Levothyroxine Sodium Tablets may increase the effects of sympathomimetics or thyroid hormone. Thyroid hormones may increase the risk of coronary insufficiency when sympathomimetic agents are administered to patients with coronary artery disease.

7.8 Tyrosine-Kinase Inhibitors

Concurrent use of tyrosine-kinase inhibitors such as imatinib may cause hypothyroidism. Closely monitor TSH levels in such patients.

7.9 Drug-Food Interactions

Consumption of certain foods may affect Levothyroxine Sodium Tablets absorption thereby necessitating adjustments in dosing [see *Dosage and Administration (2.1)*]. Soybean flour, cottonseed meal, walnuts, and dietary fiber may bind and decrease the absorption of Levothyroxine Sodium Tablets from the gastrointestinal tract. Grapefruit juice may delay the absorption of levothyroxine and reduce its bioavailability.

7.10 Drug-Laboratory Test Interactions

Consider changes in TBG concentration when interpreting T4 and T3 values. Measure and evaluate unbound (free) hormone and/or determine the free-T4 index (FT4I) in this circumstance. Pregnancy, infectious hepatitis, estrogens, estrogen-containing oral contraceptives, and acute intermittent porphyria increase TBG concentration. Nephrosis, severe hypoproteinemia, severe liver disease, acromegaly, androgens, and corticosteroids decrease TBG concentration. Familial hyper- or hypo-thyroxine binding globulinemias have been described, with the incidence of TBG deficiency approximating 1 in 9000.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Experience with levothyroxine use in pregnant women, including data from post-marketing studies, have not reported increased rates of major birth defects or miscarriages [see *Data*]. There are risks to the mother and fetus associated with untreated hypothyroidism in pregnancy. Since TSH levels may increase during pregnancy, TSH should be monitored and Levothyroxine Sodium Tablets dosage adjusted during pregnancy [see *Clinical Considerations*]. There are no animal studies conducted with levothyroxine during pregnancy. Levothyroxine Sodium Tablets should not be discontinued during pregnancy and hypothyroidism diagnosed during pregnancy should be promptly treated.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Maternal hypothyroidism during pregnancy is associated with a higher rate of complications, including spontaneous abortion, gestational hypertension, pre-eclampsia, stillbirth, and premature delivery. Untreated maternal hypothyroidism may have an adverse effect on fetal neurocognitive development.

Dose Adjustments During Pregnancy and the Postpartum Period

Pregnancy may increase Levothyroxine Sodium Tablets requirements. Serum TSH levels should be monitored and the Levothyroxine Sodium Tablets dosage adjusted during pregnancy. Since postpartum TSH levels are similar to preconception values, the Levothyroxine Sodium Tablets dosage should return to the pre-pregnancy dose immediately after delivery [see *Dosage and Administration (2.3)*].

Data

Human Data

Levothyroxine is approved for use as a replacement therapy for hypothyroidism. There is a long experience of levothyroxine use in pregnant women, including data from post-marketing studies that have not reported increased rates of fetal malformations,

miscarriages or other adverse maternal or fetal outcomes associated with levothyroxine use in pregnant women.

8.2 Lactation

Risk Summary

Limited published studies report that levothyroxine is present in human milk. However, there is insufficient information to determine the effects of levothyroxine on the breastfed infant and no available information on the effects of levothyroxine on milk production. Adequate levothyroxine treatment during lactation may normalize milk production in hypothyroid lactating mothers. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Levothyroxine Sodium Tablets and any potential adverse effects on the breastfed infant from Levothyroxine Sodium Tablets or from the underlying maternal condition.

8.4 Pediatric Use

The initial dose of Levothyroxine Sodium Tablets varies with age and body weight. Dosing adjustments are based on an assessment of the individual patient's clinical and laboratory parameters [see *Dosage and Administration (2.3, 2.4)*].

In children in whom a diagnosis of permanent hypothyroidism has not been established, discontinue Levothyroxine Sodium Tablets administration for a trial period, but only after the child is at least 3 years of age. Obtain serum T4 and TSH levels at the end of the trial period, and use laboratory test results and clinical assessment to guide diagnosis and treatment, if warranted.

Congenital Hypothyroidism [See *Dosage and Administration (2.3, 2.4)*]

Rapid restoration of normal serum T4 concentrations is essential for preventing the adverse effects of congenital hypothyroidism on intellectual development as well as on overall physical growth and maturation. Therefore, initiate Levothyroxine Sodium Tablets therapy immediately upon diagnosis. Levothyroxine is generally continued for life in these patients.

Closely monitor infants during the first 2 weeks of Levothyroxine Sodium Tablets therapy for cardiac overload, arrhythmias, and aspiration from avid suckling.

Closely monitor patients to avoid undertreatment or overtreatment. Undertreatment may have deleterious effects on intellectual development and linear growth. Overtreatment is associated with craniosynostosis in infants, may adversely affect the tempo of brain maturation, and may accelerate the bone age and result in premature epiphyseal closure and compromised adult stature.

Acquired Hypothyroidism in Pediatric Patients

Closely monitor patients to avoid undertreatment and overtreatment. Undertreatment may result in poor school performance due to impaired concentration and slowed mentation and in reduced adult height. Overtreatment may accelerate the bone age and result in premature epiphyseal closure and compromised adult stature.

Treated children may manifest a period of catch-up growth, which may be adequate in some cases to normalize adult height. In children with severe or prolonged hypothyroidism, catch-up growth may not be adequate to normalize adult height.

8.5 Geriatric Use

Because of the increased prevalence of cardiovascular disease among the elderly, initiate Levothyroxine Sodium Tablets at less than the full replacement dose [see *Warnings and Precautions (5.1)* and *Dosage and Administration (2.3)*]. Atrial arrhythmias can occur in elderly patients. Atrial fibrillation is the most common of the arrhythmias observed with levothyroxine overtreatment in the elderly.

10 OVERDOSAGE

The signs and symptoms of overdosage are those of hyperthyroidism [see *Warnings and Precautions (5)* and *Adverse Reactions (6)*]. In addition, confusion and disorientation may occur.

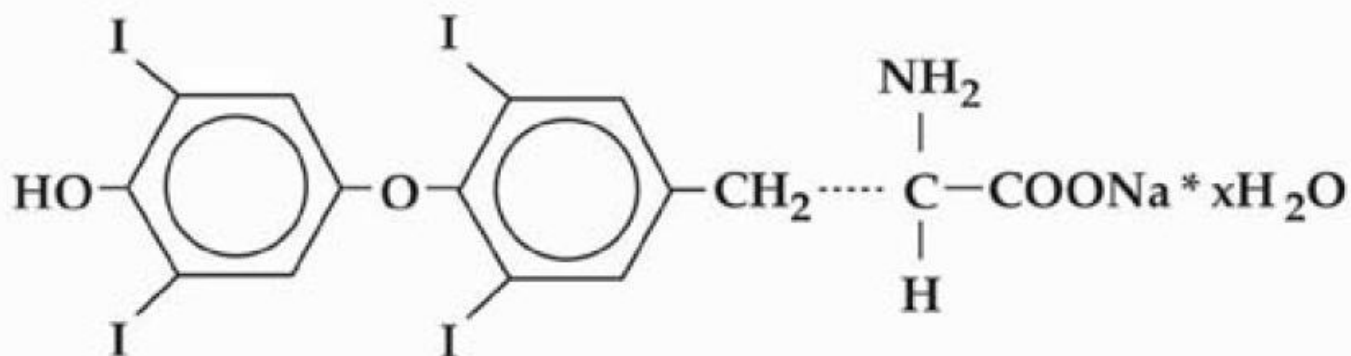
Cerebral embolism, shock, coma, and death have been reported. Seizures occurred in a 3-year-old child ingesting 3.6 mg of levothyroxine. Symptoms may not necessarily be evident or may not appear until several days after ingestion of levothyroxine sodium.

Reduce the Levothyroxine Sodium Tablets dose or discontinue temporarily if signs or symptoms of overdosage occur. Initiate appropriate supportive treatment as dictated by the patient's medical status.

For current information on the management of poisoning or overdosage, contact the National Poison Control Center at 1-800-222-1222 or www.poisson.org.

11 DESCRIPTION

Levothyroxine Sodium Tablets contain the active ingredient, levothyroxine, a synthetic crystalline L-3,3',5,5'- tetraiodothyronine in sodium salt form. Synthetic T₄ is identical in chemical structure to the T₄ produced in the human thyroid gland. Levothyroxine (T₄) sodium has an empirical formula of C₁₅H₁₀I₄NNaO₄•xH₂O (where x = 5), molecular weight of 798.86 g/mol (anhydrous), and structural formula as shown:



Levothyroxine Sodium Tablets for oral administration are available in the following strengths: 25 mcg, 50 mcg, 75 mcg, 88 mcg, 100 mcg, 112 mcg, 125 mcg, 137 mcg, 150 mcg, 175 mcg, 200 mcg, and 300 mcg. Each levothyroxine sodium tablet contains the inactive ingredients butylatedhydroxy toluene, calcium phosphate dibasic dihydrate, magnesium stearate, microcrystalline cellulose, povidone, sodium starch glycolate, and color additive(s). Table 6 provides a listing of the color additives by tablet strength:

Table 6. Levothyroxine Sodium Tablets Color Additives

Strength (mcg)	Color additive(s)
25	FD&C Yellow No. 6 Aluminum Lake*
50	None
75	FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake
88	FD&C Blue No. 1 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, D&C Yellow No. 10 Aluminum Lake
100	D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*
112	D&C Red No. 27 & 30 Aluminum Lake
125	FD&C Yellow No. 6 Aluminum Lake*, FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 1 Aluminum Lake
137	FD&C Blue No. 1 Aluminum Lake
150	FD&C Blue No. 2 Aluminum Lake
175	FD&C Blue No. 1 Aluminum Lake, D&C Red No. 27 & 30 Aluminum Lake
200	FD&C Red No. 40 Aluminum Lake
300	D&C Yellow No. 10 Aluminum Lake, FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake

* Note - FD&C Yellow No. 6 is orange in color.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Thyroid hormones exert their physiologic actions through control of DNA transcription and protein synthesis. Triiodothyronine (T3) and L-thyroxine (T4) diffuse into the cell nucleus and bind to thyroid receptor proteins attached to DNA. This hormone nuclear receptor complex activates gene transcription and synthesis of messenger RNA and cytoplasmic proteins.

The physiological actions of thyroid hormones are produced predominantly by T3, the majority of which (approximately 80%) is derived from T4 by deiodination in peripheral tissues.

12.2 Pharmacodynamics

Oral levothyroxine sodium is a synthetic T4 hormone that exerts the same physiologic effect as endogenous T4, thereby maintaining normal T4 levels when a deficiency is present.

12.3 Pharmacokinetics

Absorption

Absorption of orally administered T4 from the gastrointestinal tract ranges from 40% to 80%. The majority of the Levothyroxine Sodium Tablets dose is absorbed from the

jejunum and upper ileum. The relative bioavailability of Levothyroxine Sodium Tablets, compared to an equal nominal dose of oral levothyroxine sodium solution, is approximately 94%. T4 absorption is increased by fasting, and decreased in malabsorption syndromes and by certain foods such as soybeans. Dietary fiber decreases bioavailability of T4. Absorption may also decrease with age. In addition, many drugs and foods affect T4 absorption [see *Drug Interactions (7)*].

Distribution

Circulating thyroid hormones are greater than 99% bound to plasma proteins, including thyroxine-binding globulin (TBG), thyroxine-binding prealbumin (TBPA), and albumin (TBA), whose capacities and affinities vary for each hormone. The higher affinity of both TBG and TBPA for T4 partially explains the higher serum levels, slower metabolic clearance, and longer half-life of T4 compared to T3. Protein-bound thyroid hormones exist in reverse equilibrium with small amounts of free hormone. Only unbound hormone is metabolically active. Many drugs and physiologic conditions affect the binding of thyroid hormones to serum proteins [see *Drug Interactions (7)*]. Thyroid hormones do not readily cross the placental barrier [see *Use in Specific Populations (8.1)*].

Elimination

Metabolism

T4 is slowly eliminated (see Table 7). The major pathway of thyroid hormone metabolism is through sequential deiodination. Approximately 80% of circulating T3 is derived from peripheral T4 by monodeiodination. The liver is the major site of degradation for both T4 and T3, with T4 deiodination also occurring at a number of additional sites, including the kidney and other tissues. Approximately 80% of the daily dose of T4 is deiodinated to yield equal amounts of T3 and reverse T3 (rT3). T3 and rT3 are further deiodinated to diiodothyronine. Thyroid hormones are also metabolized via conjugation with glucuronides and sulfates and excreted directly into the bile and gut where they undergo enterohepatic recirculation.

Excretion

Thyroid hormones are primarily eliminated by the kidneys. A portion of the conjugated hormone reaches the colon unchanged and is eliminated in the feces. Approximately 20% of T4 is eliminated in the stool. Urinary excretion of T4 decreases with age.

Table 7. Pharmacokinetic Parameters of Thyroid Hormones in Euthyroid Patients

Hormone	Ratio in Thyroglobulin	Biologic Potency	t _{1/2} (days)	Protein Binding (%) [*]
Levothyroxine (T4)	10 - 20	1	6-7 [†]	99.96
Liothyronine (T3)	1	4	≤ 2	99.5

* Includes TBG, TBPA, and TBA

† 3 to 4 days in hyperthyroidism, 9 to 10 days in hypothyroidism

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Standard animal studies have not been performed to evaluate the carcinogenic potential, mutagenic potential or effects on fertility of levothyroxine.

16 HOW SUPPLIED/STORAGE AND HANDLING

Levothyroxine Sodium Tablets, in the shape of caplet are supplied as follows:

75 mcg - Violet - Imprint "T|4" and "75"

NDC: 71335-1423-1 30 TABLET in a BOTTLE

NDC: 71335-1423-2 100 TABLET in a BOTTLE

NDC: 71335-1423-3 60 TABLET in a BOTTLE

NDC: 71335-1423-4 90 TABLET in a BOTTLE

NDC: 71335-1423-5 28 TABLET in a BOTTLE

NDC: 71335-1423-6 10 TABLET in a BOTTLE

200 mcg - Pink - Imprint "T|4" and "200"

NDC: 71335-1435-1 100 TABLET in a BOTTLE

NDC: 71335-1435-2 30 TABLET in a BOTTLE

NDC: 71335-1435-3 90 TABLET in a BOTTLE

NDC: 71335-1435-4 60 TABLET in a BOTTLE

NDC: 71335-1435-5 18 TABLET in a BOTTLE

88 mcg - Mint Green - Imprint "T|4" and "88"

NDC: 71335-1438-1 30 TABLET in a BOTTLE

NDC: 71335-1438-2 90 TABLET in a BOTTLE

NDC: 71335-1438-3 28 TABLET in a BOTTLE

NDC: 71335-1438-4 100 TABLET in a BOTTLE

NDC: 71335-1438-5 60 TABLET in a BOTTLE

25 mcg - Orange - "T|4" and "25"

NDC: 71335-1447-1 30 TABLET in a BOTTLE

NDC: 71335-1447-2 90 TABLET in a BOTTLE

NDC: 71335-1447-3 100 TABLET in a BOTTLE

NDC: 71335-1447-4 60 TABLET in a BOTTLE

NDC: 71335-1447-5 28 TABLET in a BOTTLE

NDC: 71335-1447-6 10 TABLET in a BOTTLE

125 mcg - Brown - "T|4" and "125"

NDC: 71335-1456-1 30 TABLET in a BOTTLE
NDC: 71335-1456-2 100 TABLET in a BOTTLE
NDC: 71335-1456-3 90 TABLET in a BOTTLE
NDC: 71335-1456-4 60 TABLET in a BOTTLE
NDC: 71335-1456-5 28 TABLET in a BOTTLE
112 mcg - Rose - Imprint "T|4" and "112"
NDC: 71335-1465-1 30 TABLET in a BOTTLE
NDC: 71335-1465-2 90 TABLET in a BOTTLE
NDC: 71335-1465-3 60 TABLET in a BOTTLE
NDC: 71335-1465-4 18 TABLET in a BOTTLE
NDC: 71335-1465-5 100 TABLET in a BOTTLE
100 mcg - Yellow - "T|4" and "100"
NDC: 71335-1478-1 100 TABLET in a BOTTLE
NDC: 71335-1478-2 30 TABLET in a BOTTLE
NDC: 71335-1478-3 60 TABLET in a BOTTLE
NDC: 71335-1478-4 7 TABLET in a BOTTLE
NDC: 71335-1478-5 14 TABLET in a BOTTLE
NDC: 71335-1478-6 90 TABLET in a BOTTLE
NDC: 71335-1478-7 28 TABLET in a BOTTLE
NDC: 71335-1478-8 56 TABLET in a BOTTLE
NDC: 71335-1478-9 180 TABLET in a BOTTLE
50 mcg - White - Imprint "T|4" and "50"
NDC: 71335-1502-1 30 TABLET in a BOTTLE
NDC: 71335-1502-2 90 TABLET in a BOTTLE
NDC: 71335-1502-3 100 TABLET in a BOTTLE
NDC: 71335-1502-4 7 TABLET in a BOTTLE
NDC: 71335-1502-5 14 TABLET in a BOTTLE
NDC: 71335-1502-6 60 TABLET in a BOTTLE
NDC: 71335-1502-7 21 TABLET in a BOTTLE
NDC: 71335-1502-8 42 TABLET in a BOTTLE
150 mcg - Light Blue - Imprint "T|4" and "150"
NDC: 71335-1512-1 30 TABLET in a BOTTLE
NDC: 71335-1512-2 100 TABLET in a BOTTLE

NDC: 71335-1512-3 90 TABLET in a BOTTLE
NDC: 71335-1512-4 60 TABLET in a BOTTLE
137 mcg - Deep Blue - Imprint "T|4" and "137"
NDC: 71335-1528-1 30 TABLET in a BOTTLE
NDC: 71335-1528-2 100 TABLET in a BOTTLE
NDC: 71335-1528-3 90 TABLET in a BOTTLE
NDC: 71335-1528-4 28 TABLET in a BOTTLE
NDC: 71335-1528-5 60 TABLET in a BOTTLE
175 mcg - Lilac - Imprint "T|4" and "175"
NDC: 71335-1637-1 30 TABLET in a BOTTLE
NDC: 71335-1637-2 90 TABLET in a BOTTLE
NDC: 71335-1637-3 100 TABLET in a BOTTLE
NDC: 71335-1637-4 38 TABLET in a BOTTLE
NDC: 71335-1637-5 28 TABLET in a BOTTLE
NDC: 71335-1637-6 60 TABLET in a BOTTLE

Storage Conditions

Store at 25°C (77°F); excursions permitted to 15° C to 30° C (59° F to 86° F) [see USP Controlled Room Temperature]. Levothyroxine Sodium Tablets should be protected from light and moisture.

Repackaged/Relabeled by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504

17 PATIENT COUNSELING INFORMATION

Inform the patient of the following information to aid in the safe and effective use of Levothyroxine Sodium Tablets:

Dosing and Administration

- Instruct patients to take Levothyroxine Sodium Tablets only as directed by their healthcare provider.
- Instruct patients to take Levothyroxine Sodium Tablets as a single dose, preferably on an empty stomach, one-half to one hour before breakfast.
- Inform patients that agents such as iron and calcium supplements and antacids can decrease the absorption of levothyroxine. Instruct patients not to take Levothyroxine Sodium Tablets within 4 hours of these agents.
- Instruct patients to notify their healthcare provider if they are pregnant or breastfeeding or are thinking of becoming pregnant while taking Levothyroxine Sodium Tablets.

Important Information

- Inform patients that it may take several weeks before they notice an improvement in symptoms.
- Inform patients that the levothyroxine in Levothyroxine Sodium Tablets is intended to replace a hormone that is normally produced by the thyroid gland. Generally, replacement therapy is to be taken for life.
- Inform patients that Levothyroxine Sodium Tablets should not be used as a primary or adjunctive therapy in a weight control program.
- Instruct patients to notify their healthcare provider if they are taking any other medications, including prescription and over-the-counter preparations.
- Instruct patients to notify their physician of any other medical conditions they may have, particularly heart disease, diabetes, clotting disorders, and adrenal or pituitary gland problems, as the dose of medications used to control these other conditions may need to be adjusted while they are taking Levothyroxine Sodium Tablets. If they have diabetes, instruct patients to monitor their blood and/or urinary glucose levels as directed by their physician and immediately report any changes to their physician. If patients are taking anticoagulants, their clotting status should be checked frequently.
- Instruct patients to notify their physician or dentist that they are taking Levothyroxine Sodium Tablets prior to any surgery.

Adverse Reactions

- Instruct patients to notify their healthcare provider if they experience any of the following symptoms: rapid or irregular heartbeat, chest pain, shortness of breath, leg cramps, headache, nervousness, irritability, sleeplessness, tremors, change in appetite, weight gain or loss, vomiting, diarrhea, excessive sweating, heat intolerance, fever, changes in menstrual periods, hives or skin rash, or any other unusual medical event.
- Inform patients that partial hair loss may occur rarely during the first few months of Levothyroxine Sodium Tablets therapy, but this is usually temporary.

Manufactured by:
LLOYD, Inc.
Shenandoah, IA 51601 USA

Distributed by:
Alvogen, Inc.
Pine Brook, NJ 07058 USA

PI640-00
Rev. 05/2019

Levothyroxine Sodium 75mcg Tablet



GTIN 00371335142315
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 75 mcg (0.075 mg) .

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1423-1

**Levothyroxine Sodium
Tablets, USP**

75 mcg (0.075 mg)



Repackaged by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504 USA

Rx only
30 Tablets
Manufactured by:
LLOYD, Inc.



Levothyroxine Sodium 200mcg Tablet



GTIN 00371335143510
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: 200 mcg (0.2 mg) Levothyroxine Sodium, USP.

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1435-1

**Levothyroxine Sodium
Tablets, USP**

200 mcg (0.2 mg)



Repackaged by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504 USA

Rx only
100 Tablets
Manufactured by:
LLOYD, Inc.



Levothyroxine Sodium 88 mcg Tablet



GTIN 00371335143817
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: 88 mcg (0.088 mg) Levothyroxine Sodium, USP.

Keep this and all drugs out of the reach of children.

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

Dispense in a tight, light-resistant container as defined in the USP. Protect from light and moisture.

Do not accept if seal over bottle opening is broken or missing.

NDC 71335-1438-1

**Levothyroxine Sodium
Tablets, USP**

88 mcg (0.088 mg)



Repackaged by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504 USA

Rx only
30 Tablets
Manufactured by:
LLOYD, Inc.



Levothyroxine Sodium 25mcg Tablet



GTIN 00371335144715
 Lot 208820
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 25 mcg (0.025 mg).

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1447-1

**Levothyroxine Sodium
 Tablets, USP**

25 mcg (0.025 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



7133514471

Levothyroxine Sodium 125mcg Tablet



GTIN 00371335145613
 Lot 208820
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 125 mcg (0.125 mg).

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1456-1

**Levothyroxine Sodium
 Tablets, USP**

125 mcg (0.125 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



7133514561

Levothyroxine Sodium 112mcg Tablet



GTIN 00371335146511
 Lot 208820
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 112 mcg (0.112 mg).

Keep this and all drugs out of the reach of children.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F) (see USP controlled Room Temperature).

Take on empty stomach.

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

NDC 71335-1465-1

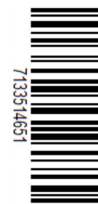
**Levothyroxine Sodium
 Tablets, USP**

112 mcg (0.112 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



7133514651

Levothyroxine Sodium 100mcg Tablet



GTIN 00371335147815
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: 100 mcg (0.1 mg) Levothyroxine Sodium, USP.

Keep this and all drugs out of the reach of children.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP. Protect from light and moisture.

Do not accept if seal over bottle is broken or missing.

NDC 71335-1478-1

Levothyroxine Sodium Tablets, USP

100 mcg (0.1 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
100 Tablets
 Manufactured by:
 LLOYD, Inc.



Levothyroxine Sodium 50 mcg Tablet



GTIN 00371335150211
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 50 mcg (0.05 mg).

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1502-1

Levothyroxine Sodium Tablets, USP

50 mcg (0.05 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD Inc.



Levothyroxine Sodium 150mcg Tablet



GTIN 00371335151218
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 150 mcg (0.15 mg).

Keep this and all drugs out of the reach of children.

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 with a child-resistant closure.

NDC 71335-1512-1

Levothyroxine Sodium Tablets, USP

150 mcg (0.15 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



Levothyroxine Sodium 137mcg Tablet



GTIN 00371335152819
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 137 mcg (0.137 mg)

Keep this and all drugs out of the reach of children.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F) (see USP controlled Room Temperature).

Take on empty stomach.

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

NDC 71335-1528-1

Levothyroxine Sodium Tablets, USP

137 mcg (0.137 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



Levothyroxine Sodium 175mcg Tablet



GTIN 00371335163716
 Lot 208620
 Exp 11/13/2025
 SN 0123456789

Each tablet contains: Levothyroxine Sodium, USP 175 mcg (0.175 mg)

Keep this and all drugs out of the reach of children.

Store at 20° to 25° C (68° to 77° F); excursions permitted to 15° to 30° C (59° to 86° F) (see USP controlled Room Temperature).

Take on empty stomach.

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

NDC 71335-1637-1

Levothyroxine Sodium Tablets, USP

175 mcg (0.175 mg)



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 LLOYD, Inc.



LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1423(NDC:47781-646)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	75 ug

Inactive Ingredients

Ingredient Name	Strength
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MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	

Product Characteristics

Color	PURPLE (violet)	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	75;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1423-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	
2	NDC:71335-1423-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	
3	NDC:71335-1423-3	60 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	
4	NDC:71335-1423-4	90 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	
5	NDC:71335-1423-5	28 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	
6	NDC:71335-1423-6	10 in 1 BOTTLE; Type 0: Not a Combination Product	12/09/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1435(NDC:47781-668)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	200 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	

Product Characteristics

Color	PINK	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	200;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1435-1	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/12/2019	
2	NDC:71335-1435-2	30 in 1 BOTTLE; Type 0: Not a Combination Product	12/12/2019	
3	NDC:71335-1435-3	90 in 1 BOTTLE; Type 0: Not a Combination Product	12/12/2019	
4	NDC:71335-1435-4	60 in 1 BOTTLE; Type 0: Not a Combination Product	12/12/2019	
5	NDC:71335-1435-5	18 in 1 BOTTLE; Type 0: Not a Combination Product	12/12/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION	Item Code	NDC:71335-1438(NDC:47781-
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Product Type	DRUG	(Source)	649)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	88 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	

Product Characteristics

Color	GREEN (mint green)	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	88;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1438-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	12/16/2019	
2	NDC:71335-1438-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	12/16/2019	
3	NDC:71335-1438-3	28 in 1 BOTTLE; Type 0: Not a Combination Product	12/16/2019	
4	NDC:71335-1438-4	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/16/2019	
5	NDC:71335-1438-5	60 in 1 BOTTLE; Type 0: Not a Combination Product	12/16/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1447(NDC:47781-640)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	25 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	

Product Characteristics

Color	ORANGE	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	25;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1447-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	
2	NDC:71335-1447-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	
3	NDC:71335-1447-3	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	
4	NDC:71335-1447-4	60 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	
5	NDC:71335-1447-5	28 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	
6	NDC:71335-1447-6	10 in 1 BOTTLE; Type 0: Not a Combination Product	12/24/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1456(NDC:47781-657)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	125 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	

Product Characteristics

Color	BROWN	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	125;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1456-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2020	
2	NDC:71335-	100 in 1 BOTTLE; Type 0: Not a Combination	01/07/2020	

2	1456-2	Product	01/07/2020	
3	NDC:71335-1456-3	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2020	
4	NDC:71335-1456-4	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2020	
5	NDC:71335-1456-5	28 in 1 BOTTLE; Type 0: Not a Combination Product	01/07/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1465(NDC:47781-654)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	112 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
D&C RED NO. 27 (UNII: 2LRS185U6K)	
D&C RED NO. 30 (UNII: 2S42T2808B)	

Product Characteristics

Color	RED (rose)	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	112;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1465-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	05/07/2019	
2	NDC:71335-1465-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	05/07/2019	
3	NDC:71335-1465-3	60 in 1 BOTTLE; Type 0: Not a Combination Product	05/07/2019	
4	NDC:71335-1465-4	18 in 1 BOTTLE; Type 0: Not a Combination Product	05/07/2019	
5	NDC:71335-1465-5	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/07/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1478(NDC:47781-651)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	100 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	

Product Characteristics

Color	YELLOW	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	100;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1478-1	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
2	NDC:71335-1478-2	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
3	NDC:71335-1478-3	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
4	NDC:71335-1478-4	7 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
5	NDC:71335-1478-5	14 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
6	NDC:71335-1478-6	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
7	NDC:71335-1478-7	28 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
8	NDC:71335-1478-8	56 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	
9	NDC:71335-1478-9	180 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1502(NDC:47781-643)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	50 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	

Product Characteristics

Color	WHITE	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	50;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1502-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
2	NDC:71335-1502-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
3	NDC:71335-1502-3	100 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
4	NDC:71335-1502-4	7 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
5	NDC:71335-1502-5	14 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
6	NDC:71335-1502-6	60 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
7	NDC:71335-1502-7	21 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	
8	NDC:71335-1502-8	42 in 1 BOTTLE; Type 0: Not a Combination Product	02/24/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1512(NDC:47781-662)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	150 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I3O)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	

Product Characteristics

Color	BLUE (light blue)	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	150;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1512-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	02/18/2020	
2	NDC:71335-1512-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	02/18/2020	
3	NDC:71335-1512-3	90 in 1 BOTTLE; Type 0: Not a Combination Product	02/18/2020	
4	NDC:71335-1512-4	60 in 1 BOTTLE; Type 0: Not a Combination Product	02/18/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1528(NDC:47781-659)	
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)		LEVOTHYROXINE SODIUM ANHYDROUS	137 ug	
Inactive Ingredients				
Ingredient Name			Strength	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)				
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)				
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)				
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)				
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)				
Product Characteristics				
Color	BLUE (deep blue)	Score	2 pieces	
Shape	CAPSULE	Size	10mm	
Flavor		Imprint Code	137;T;4	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1528-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	03/05/2020	
2	NDC:71335-1528-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/05/2020	
3	NDC:71335-1528-3	90 in 1 BOTTLE; Type 0: Not a Combination Product	03/05/2020	
4	NDC:71335-1528-4	28 in 1 BOTTLE; Type 0: Not a Combination Product	03/05/2020	
5	NDC:71335-1528-5	60 in 1 BOTTLE; Type 0: Not a Combination Product	03/05/2020	
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA	NDA021116	05/07/2019		

LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-1637(NDC:47781-665)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LEVOTHYROXINE SODIUM (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	175 ug

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
DIBASIC CALCIUM PHOSPHATE DIHYDRATE (UNII: O7TSZ97GEP)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
D&C RED NO. 27 (UNII: 2LRS185U6K)	
D&C RED NO. 30 (UNII: 2S42T2808B)	

Product Characteristics

Color	PURPLE (lilac)	Score	2 pieces
Shape	CAPSULE	Size	10mm
Flavor		Imprint Code	175;T;4
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-1637-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	
2	NDC:71335-1637-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	
3	NDC:71335-1637-3	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	
4	NDC:71335-1637-4	38 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	
5	NDC:71335-1637-5	28 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	
6	NDC:71335-1637-6	60 in 1 BOTTLE; Type 0: Not a Combination Product	06/09/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021116	05/07/2019	

Labeler - Bryant Ranch Prepack (171714327)

Establishment

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(71335-1465, 71335-1423, 71335-1435, 71335-1438, 71335-1447, 71335-1456, 71335-1478, 71335-1502, 71335-1512, 71335-1528, 71335-1637) , RELABEL(71335-1423, 71335-1435, 71335-1438, 71335-1447, 71335-1456, 71335-1465, 71335-1478, 71335-1502, 71335-1512, 71335-1528, 71335-1637)

Revised: 11/2023

Bryant Ranch Prepack