

# LEVOTHYROXINE SODIUM- levothyroxine sodium tablet

## Major Pharmaceuticals

### 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 tablet 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).**

#### RECENT MAJOR CHANGES

Indications and Usage (1)	8/2022
Dosage and Administration (2.2)	8/2022
Dosage and Administration (2.3)	8/2022
Warnings and Precautions (5.1)	8/2022
Warnings and Precautions (5.4)	8/2022

#### INDICATIONS AND USAGE

Levothyroxine sodium tablet is a L-thyroxine (T4) indicated in adult and pediatric patients, including neonates, 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 to 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, 50, 75, 88, 100, 112, 125, 137, 150, 175, 200, and 300 mcg (3)

#### CONTRAINDICATIONS

- Uncorrected adrenal insufficiency. (4)

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## WARNINGS AND PRECAUTIONS

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- *Serious risks related to overtreatment or undertreatment with levothyroxine sodium tablet* Titrate the dose of levothyroxine sodium tablet carefully and monitor response to titration. (5.1).
- *Cardiac adverse reactions in the elderly and in patients with underlying cardiovascular disease* Initiate levothyroxine sodium tablet at less than the full replacement dose because of the increased risk of cardiac adverse reactions, including atrial fibrillation. ((2.3, 5.2, 8.5)
- *Myxedema coma* Do not use oral thyroid hormone drug products to treat myxedema coma. (5.3)
- *Acute adrenal crisis in patients with concomitant adrenal insufficiency* Treat with replacement glucocorticoids prior to initiation of levothyroxine sodium tablet treatment. (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)

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## ADVERSE REACTIONS

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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 Lupin Pharmaceuticals, Inc. at 1-800-399-2561 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

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## DRUG INTERACTIONS

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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)

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## USE IN SPECIFIC POPULATIONS

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Pregnancy may require the use of higher doses of levothyroxine sodium tablets. (2.3, 8.1)

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 3/2024**

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**FULL PRESCRIBING INFORMATION**

**WARNING: NOT FOR TREATMENT OF OBESITY OR FOR WEIGHT LOSS**

**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 in adult and pediatric patients, including neonates, 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 in adult and pediatric patients, including neonates, 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 (5.1)].
- Levothyroxine sodium tablets are not indicated for treatment of hypothyroidism during the recovery phase of subacute thyroiditis.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Important Administration Instructions**

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 dosage adjustments when regularly administering within one hour of certain foods that may affect levothyroxine sodium tablets absorption [see Dosage and Administration (2.2 and 2.3), Drug Interactions (7.9) and Clinical Pharmacology

(12.3)].

Administer levothyroxine sodium tablets to pediatric patients who cannot swallow intact tablets by crushing the tablet, suspending the freshly crushed tablet in a small amount (5 to 10 mL) of water and immediately administering the suspension by spoon or dropper. Ensure the patient ingests the full amount of the suspension. 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 Important Considerations for Dosing

The dosage 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 dosage adjustments made based on periodic assessment of the patient's clinical response and laboratory parameters [see *Dosage and Administration (2.4)*].

For adult patients with primary hypothyroidism, titrate until the patient is clinically euthyroid and the serum TSH returns to normal [see *Dosage and Administration (2.3)*].

For secondary or tertiary hypothyroidism, serum TSH is not a reliable measure of levothyroxine sodium tablets dosage adequacy and should not be used to monitor therapy. Use the serum free-T4 level to titrate levothyroxine sodium tablets dosing until the patient is clinically euthyroid and the serum free-T4 level is restored to the upper half of the normal range [see *Dosage and Administration (2.3)*].

The peak therapeutic effect of a given dose of levothyroxine sodium tablets may not be attained for 4 to 6 weeks.

## 2.3 Recommended Dosage and Titration

### *Primary, Secondary, and Tertiary Hypothyroidism in Adults*

The recommended starting daily dosage of levothyroxine sodium tablets in adults with primary, secondary, or tertiary hypothyroidism is based on age and comorbid cardiac conditions, as described in Table 1. For patients at risk of atrial fibrillation or patients with underlying cardiac disease, start with a lower dosage and titrate the dosage more slowly to avoid exacerbation of cardiac symptoms. Dosage titration is based on serum TSH or free-T4 [see *Dosage and Administration (2.2)*].

**Table 1. Levothyroxine Sodium Tablets Dosing Guidelines for Hypothyroidism in Adults\***

<b>Patient Population</b>	<b>Starting Dosage</b>	<b>Dosage Titration Based on Serum TSH or Free-T4</b>
Adults diagnosed with hypothyroidism	Full replacement dose is 1.6 mcg/kg/day. Some patients require a lower starting dose.	Titrate dosage by 12.5 to 25 mcg increments every 4 to 6 weeks, as needed until the patient is euthyroid.
Adults at risk for atrial	Lower starting dose (less	Titrate dosage every 6 to 8

fibrillation or with underlying cardiac disease	than 1.6 mcg/kg/day)	weeks, as needed until the patient is euthyroid.
Geriatric patients	Lower starting dose (less than 1.6 mcg/kg/day)	

\* Dosages greater than 200 mcg/day are seldom required. An inadequate response to daily dosages greater than 300 mcg/day is rare and may indicate poor compliance, malabsorption, drug interactions, or a combination of these factors. [see Dosage and Administration (2.1) and Drug Interactions (7)].

### *Primary, Secondary and Tertiary Hypothyroidism in Pediatric Patients*

The recommended starting daily dosage of levothyroxine sodium tablets in pediatric patients with primary, secondary, or tertiary hypothyroidism is based on body weight and changes with age as described in Table 2. Titrate the dosage (every 2 weeks) as needed based on serum TSH or free-T4 until the patient is euthyroid [see Dosage and Administration (2.2)].

**Table 2. Levothyroxine Sodium Tablets Dosing Guidelines for Hypothyroidism in Pediatric Patients**

<b>Age</b>	<b>Starting Daily Dosage Per Kg Body Weight<sup>a</sup></b>
0 to 3 months	10 to 15 mcg/kg/day
3 to 6 months	8 to 10 mcg/kg/day
6 to 12 months	6 to 8 mcg/kg/day
1 to 5 years	5 to 6 mcg/kg/day
6 to 12 years	4 to 5 mcg/kg/day
Greater than 12 years but growth and puberty incomplete	2 to 3 mcg/kg/day
Growth and puberty complete	1.6 mcg/kg/day

<sup>a</sup> Adjust dosage based on clinical response and laboratory parameters [see Dosage and Administration (2.4) and Use in Specific Populations (8.4)].

### *Pediatric Patients from Birth to 3 Months of Age at Risk for Cardiac Failure.*

Start at a lower starting dosage and increase the dosage every 4 to 6 weeks as needed based on clinical and laboratory response.

### *Pediatric Patients at Risk for Hyperactivity*

To minimize the risk of hyperactivity, start at one-fourth the recommended full replacement dosage, and increase on a weekly basis by one-fourth the full recommended replacement dosage until the full recommended replacement dosage is reached.

### Hypothyroidism in Pregnant Patients

For pregnant patients with pre-existing hypothyroidism, measure serum TSH and free-T4 as soon as pregnancy is confirmed and, at minimum, during each trimester of pregnancy. In pregnant patients with primary hypothyroidism, maintain serum TSH in the trimester-specific reference range.

The recommended daily dosage of levothyroxine sodium tablets in pregnant patients is described in Table 3.

**Table 3. Levothyroxine Sodium Tablets Dosing guidelines for Hypothyroidism in Pregnant Patients**

<b>Patient Population</b>	<b>Starting Dosage</b>	<b>Dose Adjustment and Titration</b>
Pre-existing primary hypothyroidism with serum TSH above normal trimester-specific range	Pre-pregnancy dosage may increase during pregnancy	Increase levothyroxine sodium tablet dosage by 12.5 to 25 mcg per day. Monitor TSH every 4 weeks until a stable dose is reached and serum TSH is within normal trimester-specific range. Reduce levothyroxine sodium tablet dosage to pre-pregnancy levels immediately after delivery. Monitor serum TSH 4 to 8 weeks postpartum.
New onset hypothyroidism (TSH $\geq$ 10 IU per liter)	1.6 mcg/kg/day	Monitor serum TSH every 4 weeks and adjust levothyroxine sodium tablet dosage until serum TSH is within normal trimester-specific range.
New onset hypothyroidism (TSH < 10 IU per liter)	1.0 mcg/kg/day	

*TSH Suppression in Well-differentiated Thyroid Cancer in Adult and Pediatric Patients*

The levothyroxine sodium tablets dosage is based on the target level of TSH suppression for the stage and clinical status of thyroid cancer.

**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 dosage. In patients on a stable and appropriate replacement dosage, evaluate clinical and biochemical response every 6 to 12 months and whenever there is a change in the patient's clinical status.

*Pediatric Patients*

In patients with 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 pediatric patients 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 dosage

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.

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 IU per liter within 4 weeks may indicate the patient 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 (5.1)* 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 USP are round, colored, scored and debossed with following debossing details on one side and break-line on other side. They are available as follows (Table 4)

**Table 4: Levothyroxine Sodium Tablet Strengths and Identifying Features**

<b>Tablet Strength</b>	<b>Tablet Color/Shape</b>	<b>Debossing Details</b>
25 mcg	Peach/Round	L15
50 mcg	White/Round	L16
75 mcg	Violet/Round	L17
88 mcg	Olive/Round	L19
100 mcg	Yellow/Round	L20
112 mcg	Rose/Round	L21
125 mcg	Tan/Round	L22
137 mcg	Turquoise/Round	L23
150 mcg	Blue/Round	L24
175 mcg	Lilac/Round	L25
200 mcg	Pink/Round	L26
300 mcg	Green/Round	L27

### **4 CONTRAINDICATIONS**

Levothyroxine sodium tablets are contraindicated in patients with uncorrected adrenal insufficiency [see *Warnings and Precautions (5.4)*].

### **5 WARNINGS AND PRECAUTIONS**



## **5.1 Serious Risks Related to Overtreatment or Undertreatment with Levothyroxine sodium tablets**

Levothyroxine sodium tablet has a narrow therapeutic index. Overtreatment or undertreatment with Levothyroxine sodium tablets may have negative effects on growth and development, cardiovascular function, bone metabolism, reproductive function, cognitive function, gastrointestinal function, and glucose and lipid metabolism in adult or pediatric patients.

In pediatric patients with congenital and acquired hypothyroidism, undertreatment may adversely

affect cognitive development and linear growth, and overtreatment is associated with craniosynostosis and acceleration of bone age [see *Use in Specific Populations (8.4)*].

Titrate the dose of Levothyroxine sodium tablets carefully and monitor response to titration to avoid these effects [see *Dosage and Administration (2.4)*]. Consider the potential for food or drug interactions and adjust the administration or dosage of Levothyroxine sodium tablets as needed [see *Dosage and Administration (2.1)*, *Drug Interactions (7.1)*, and *Clinical Pharmacology (12.3)*].

## **5.2 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.

## **5.3 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.

## **5.4 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)*].

### **5.5 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 Pediatric Patients**

Pseudotumor cerebri and slipped capital femoral epiphysis have been reported in pediatric patients receiving levothyroxine therapy. Overtreatment may result in craniosynostosis in infants who have not undergone complete closure of the fontanelles, and in premature closure of the epiphyses in pediatric patients still experiencing growth 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 (Tables 5 to 8).

**Table 5. 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.	
<b>Drug or Drug Class</b>	<b>Effect</b>
Phosphate Binders (e.g., calcium carbonate, ferrous sulfate, sevelamer, lanthanum)	Phosphate binders may bind to levothyroxine. 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 (e.g., colestevlam, cholestyramine, colestipol) Ion Exchange Resins (e.g., Kayexalate)	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.
Proton Pump Inhibitors Sucralfate Antacids (e.g., aluminum & magnesium hydroxides, simethicone)	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.

**Table 6. Drugs That May Alter T4 and Triiodothyronine (T3) Serum Transport Without Affecting Free Thyroxine (FT4) Concentration (Euthyroidism)**

<b>Drug or Drug Class</b>	<b>Effect</b>
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 (> 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 (> 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 7. 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.	
<b>Drug or Drug Class</b>	<b>Effect</b>
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 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 8. Drugs That May Decrease Conversion of T4 to T3**

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

<b>Drug or Drug Class</b>	<b>Effect</b>
Beta-adrenergic antagonists (e.g., Propranolol > 160 mg/day)	In patients treated with large doses of propranolol (> 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 $\geq$ 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 tablet increases 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

The clinical experience, including data from postmarketing studies, in pregnant women treated with oral levothyroxine to maintain euthyroid state have not reported increased rates of major birth defects, miscarriages, or other adverse maternal or fetal outcomes. 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*). Animal reproductive studies have not been conducted with levothyroxine sodium. 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. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. 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)*].

## **8.2 Lactation**

### Risk Summary

Published studies report that levothyroxine is present in human milk following the administration of oral levothyroxine. No adverse effects on the breastfed infant have been reported and there is no information on the effects of levothyroxine on milk production. Adequate levothyroxine treatment during lactation may normalize milk production in hypothyroid lactating mothers with low milk supply. 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**

Levothyroxine Sodium Tablets is indicated in patients from birth to less than 17 years of age:

- As a replacement therapy in primary (thyroidal), secondary (pituitary), and tertiary (hypothalamic) congenital or acquired hypothyroidism.
- As an adjunct to surgery and radioiodine therapy in the management of thyrotropin-dependent well-differentiated thyroid cancer.

Rapid restoration of normal serum T4 concentrations is essential for preventing the adverse effects of congenital hypothyroidism on cognitive 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. [see *Warnings and Precautions (5.1)*].

Closely monitor infants during the first 2 weeks of levothyroxine sodium tablets therapy for cardiac overload and arrhythmias.

## 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 *Dosage and Administration (2.3)* and *Warnings and Precautions (5.2)*]. 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

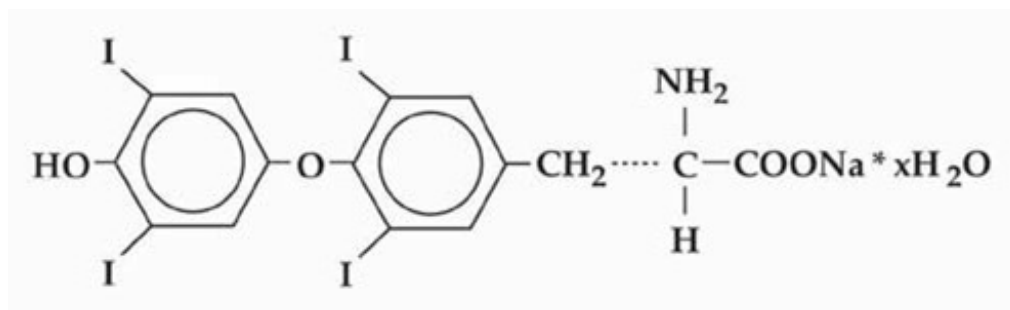
The signs and symptoms of overdose are those of hyperthyroidism [see *Warnings and Precautions (5)* and *Adverse Reactions (6)*]. In addition, confusion and disorientation may occur. Cerebral embolism, shock, coma, and death have been reported. Seizures occurred in a 3-year old child ingesting 3.6 mg 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 dosage or discontinue temporarily if signs or symptoms of overdose occur. Initiate appropriate supportive treatment as dictated by the patient's medical status.

For current information on the management of poisoning or overdose, contact the National Poison Control Center at 1-800-222-1222 or [www.poisson.org](http://www.poisson.org).

## 11 DESCRIPTION

Levothyroxine sodium tablets USP is L-thyroxine (T4) and contains synthetic crystalline L-3,3',5,5' tetraiodothyronine sodium salt. Synthetic T4 is chemically identical to that produced in the human thyroid gland. Levothyroxine (T4) sodium has an empirical formula of  $C_{15}H_{10}I_4N NaO_4 \cdot xH_2O$ , molecular weight of 798.85 (anhydrous), and structural formula as shown:



Levothyroxine sodium tablets USP for oral administration are supplied 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 tablets USP contains the inactive ingredients corn starch, croscarmellose sodium, magnesium stearate, mannitol and sodium bicarbonate. Table 9 provides a listing of the color additives by tablet strength:

<b>Strength (mcg)</b>	<b>Color additive(s)</b>
25	FD&C Yellow No. 6 Aluminum Lake*
50	FD&C Blue 1 Aluminum Lake
75	FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake
88	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake, D&C Yellow No. 10 Aluminum Lake
100	FD&C Yellow No. 6 Aluminum Lake*, D&C Yellow No. 10 Aluminum Lake
112	D&C Red No. 27 Aluminum Lake
125	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake, FD&C Red No. 40 Aluminum Lake, FD&C Blue No. 2 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 Aluminum Lake
200	FD&C Red No. 40 Aluminum Lake
300	FD&C Yellow No. 6 Aluminum Lake*, FD&C Blue No. 1 Aluminum Lake, D&C Yellow No. 10 Aluminum Lake
*Note – FD&C Yellow No. 6 Aluminum Lake is peach 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 93%. 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 10). 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 10. Pharmacokinetic Parameters of Thyroid Hormones in Euthyroid Patients**

<b>Hormone</b>	<b>Ratio in Thyroglobulin</b>	<b>Biologic Potency</b>	<b>t<sub>1/2</sub> (days)</b>	<b>Protein Binding (%)<sup>a</sup></b>
Levothyroxine (T4)	10 to 20	1	6 to 7 <sup>b</sup>	99.96
Liothyronine (T3)	1	4	≤ 2	99.5

## **13 NONCLINICAL TOXICOLOGY**

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term carcinogenicity studies in animals to evaluate the carcinogenic potential of levothyroxine have not been performed. Studies to evaluate mutagenic potential and animal fertility have not been performed.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### How Supplied

Levothyroxine sodium tablets USP are round, colored, scored and debossed with following debossing details on one side and break-line on other side. They are supplied as follows:

<b>Strength (mcg)</b>	<b>Color/Shape</b>	<b>Debossing Details</b>	<b>Available in cartons of 100 (10 tablets per blister pack x 10)</b>
25	Peach/Round	L15	0904-6949-61
50	White/Round	L16	0904-6950-61
75	Violet/Round	L17	0904-6951-61
88	Olive/Round	L19	0904-6952-61
100	Yellow/Round	L20	0904-6953-61
112	Rose/Round	L21	0904-6954-61
125	Tan/Round	L22	0904-6955-61
150	Blue/Round	L24	0904-6956-61
175	Lilac/Round	L25	0904-6957-61

### Storage and Handling

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

## 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 tablet 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 for:

**Lupin Pharmaceuticals, Inc.**

Baltimore, Maryland 21202

United States

Manufactured by:

**Lupin Limited**

Pithampur (M.P.) - 454 775

INDIA

**Packaged and Distributed by:**

**MAJOR® PHARMACEUTICALS**

Indianapolis, IN 46268 USA

Refer to package label for Distributor's NDC Number

Revised: September 2023  
274663

ID#:

### Package/Label Display Panel

Levothyroxine Sodium Tablet USP

25 mcg (0.025 mg)

100 Tablets

**MAJOR**  
NDC 0904-6949-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**25 mcg (0.025 mg)**

**Rx only**  
100 TABLETS

**MAJOR**

NDC 0904-6949-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**25 mcg (0.025 mg)**

Each tablet contains  
Levothyroxine Sodium USP 25 mcg (0.025 mg).  
Usual Dosage: See product insert for prescribing  
information, precautions and warnings.  
SEE INSERT FOUND AT  
WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

Keep this and all medication out of reach of  
children. This Unit Dose package is not child  
resistant and is intended for Institutional Use Only.

LBLN0065-01 Rev. 06/19

Manufactured by: Lupin Limited  
Pimpri (M.P.) - 454 775 INDIA M.L. 28/6/2010

Manufactured for:  
Lupin Pharmaceuticals, Inc.  
Baltimore, Maryland 21202  
United States.

Distributed by:  
MAJOR PHARMACEUTICALS  
17177 N Laurel Park Dr., Suite 233  
Livonia, MI 48152 USA

3 09046 94961 9

### Package/Label Display Panel

Levothyroxine Sodium Tablet USP

50 mcg (0.05 mg)

100 Tablets

**MAJOR<sup>®</sup>**  
NDC 0904-6950-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**50 mcg (0.05 mg)**

**Rx only**  
100 TABLETS

---

**MAJOR<sup>®</sup>**  
NDC 0904-6950-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**50 mcg (0.05 mg)**

Each tablet contains  
Levothyroxine Sodium USP 50 mcg (0.05 mg).  
Usual Dosage: See product insert for prescribing  
information, precautions and warnings.  
SEE INSERT FOUND AT  
WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

**Keep this and all medication out of reach of  
children. This Unit Dose package is not child  
resistant and is Intended for Institutional Use Only.**

LBLN0066-01 Rev. 07/19

Manufactured by:	Manufactured for:
Lupin Limited	Lupin Pharmaceuticals, Inc.
Pitampur (M.P.) - 454 775 INDIA	Baltimore, Maryland 21202
M.L. 28/6/2010	United States.

Distributed by:  
**MAJOR<sup>®</sup> PHARMACEUTICALS**  
17177 N Laurel Park Dr., Suite 233  
Livonia, MI 48152 USA



3 09046 95061 5

## Package/Label Display Panel

Levothyroxine Sodium Tablet USP

75 mcg (0.075 mg)

100 Tablets

**MAJOR<sup>®</sup>**  
 NDC 0904-6951-61  
 Unit Dose

**LEVOTHYROXINE  
 SODIUM TABLETS USP**

**75 mcg (0.075 mg)**

**Rx only**  
 100 TABLETS

---

**MAJOR<sup>®</sup>**

NDC 0904-6951-61  
 Unit Dose

**LEVOTHYROXINE  
 SODIUM TABLETS USP**

**75 mcg (0.075 mg)**

Each tablet contains  
 Levothyroxine Sodium USP 75 mcg (0.075 mg).  
 Usual Dosage: See product insert for prescribing  
 information, precautions and warnings.  
 SEE INSERT FOUND AT  
 WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

Keep this and all medication out of reach of  
 children. This Unit Dose package is not child  
 resistant and is intended for Institutional Use Only.

LBLN0067-01 Rev. 07/19

Manufactured by: Lupin Limited  
 Pithampur (M.P.) - 454 775 INDIA  
 M.L. 28/6/2010

Manufactured for:  
 Lupin Pharmaceuticals, Inc.  
 Baltimore, Maryland 21202  
 United States.

Distributed by:  
**MAJOR<sup>®</sup> PHARMACEUTICALS**  
 17177 N Laurel Park Dr., Suite 233  
 Livonia, MI 48152 USA

3  2  
 09046 95161

**Package/Label Display Panel**

Levothyroxine Sodium Tablet USP

88 mcg (0.088 mg)

100 Tablets

**MAJOR<sup>®</sup>**  
NDC 0904-6952-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**88 mcg (0.088 mg)**

**Rx only**  
100 TABLETS

---

**MAJOR<sup>®</sup>**

---

NDC 0904-6952-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**88 mcg (0.088 mg)**

Each tablet contains  
Levothyroxine Sodium USP 88 mcg (0.088 mg).  
Usual Dosage: See product insert for prescribing  
information, precautions and warnings.  
SEE INSERT FOUND AT  
WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

**Keep this and all medication out of reach of  
children. This Unit Dose package is not child  
resistant and is intended for Institutional Use Only.**

LBLN0068-01 Rev. 07/19

Manufactured by:  
Lupin Limited  
Pitampur (M.P.) - 434 775 INDIA  
M.L. 28/6/2010

Manufactured for:  
Lupin Pharmaceuticals, Inc.  
Baltimore, Maryland 21202  
United States.

Distributed by:  
**MAJOR<sup>®</sup> PHARMACEUTICALS**  
17177 N Laurel Park Dr., Suite 233  
Livonia, MI 48152 USA



3 09046 95261 9

**Package/Label Display Panel**

Levothyroxine Sodium Tablet USP

100 mcg (0.1 mg)

100 Tablets



**MAJOR<sup>®</sup>**  
NDC 0904-6953-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**100 mcg (0.1 mg)**

**Rx only**  
100 TABLETS

---

**MAJOR<sup>®</sup>**  
NDC 0904-6953-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**100 mcg (0.1 mg)**

Each tablet contains  
Levothyroxine Sodium USP 100 mcg (0.1 mg).  
Usual Dosage: See product insert for prescribing  
information, precautions and warnings.  
SEE INSERT FOUND AT  
WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

Keep this and all medication out of reach of  
children. This Unit Dose package is not child  
resistant and is intended for Institutional Use Only.

LBLN0060-01 Rev. 07/19

Manufactured by: Lupin Limited Pitampur (M.P.) - 454 775 INDIA M.L. 28/6/2010	Manufactured for: Lupin Pharmaceuticals, Inc. Baltimore, Maryland 21202 United States.
--	---

Distributed by:  
**MAJOR<sup>®</sup> PHARMACEUTICALS**  
17177 N Laurel Park Dr., Suite 233  
Livonia, MI 48152 USA



3 09046 95361 6

**Package/Label Display Panel**

Levothyroxine Sodium Tablet USP

112 mcg (0.112 mg)

100 Tablets





## Package/Label Display Panel

Levothyroxine Sodium Tablet USP

150 mcg (0.15 mg)

100 Tablets

**MAJOR**<sup>®</sup>

NDC 0904-6956-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**150 mcg (0.15 mg)**

**Rx only**  
100 TABLETS

**MAJOR**<sup>®</sup>

NDC 0904-6956-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**150 mcg (0.15 mg)**

Each tablet contains

Levothyroxine Sodium USP 150 mcg (0.15 mg).

Usual Dosage: See product insert for prescribing information, precautions and warnings.

SEE INSERT FOUND AT  
[WWW.MAJORPHARMACEUTICALS.COM](http://WWW.MAJORPHARMACEUTICALS.COM)

Storage: 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.

**Keep this and all medication out of reach of children. This Unit Dose package is not child resistant and is Intended for Institutional Use Only.**

LBLN0063-01

Rev. 07/19

Manufactured by:

Lupin Limited

Pitthampur (M.P.) - 454 775 INDIA

M.L. 28/6/2010

Manufactured for:

Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202

United States.

Distributed by:

**MAJOR<sup>®</sup> PHARMACEUTICALS**

17177 N Laurel Park Dr., Suite 233

Livonia, MI 48152 USA



## Package/Label Display Panel

Levothyroxine Sodium Tablet USP

175 mcg (0.175 mg)

100 Tablets

**MAJOR**<sup>®</sup>

NDC 0904-6957-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**175 mcg (0.175 mg)**

**Rx only**  
100 TABLETS

**MAJOR**<sup>®</sup>

NDC 0904-6957-61  
Unit Dose

**LEVOTHYROXINE  
SODIUM TABLETS USP**

**175 mcg (0.175 mg)**

Each tablet contains

Levothyroxine Sodium USP 175 mcg (0.175 mg).

Usual Dosage: See product insert for prescribing information, precautions and warnings.

SEE INSERT FOUND AT  
WWW.MAJORPHARMACEUTICALS.COM

Storage: 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.

**Keep this and all medication out of reach of children. This Unit Dose package is not child resistant and is intended for Institutional Use Only.**

LBLN0064-01

Rev. 07/19

Manufactured by:

Lupin Limited

Pitampur (N.P.) - 454 775 INDIA

M.L. 28/6/2010

Manufactured for:

Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202

United States.

Distributed by:

**MAJOR<sup>®</sup> PHARMACEUTICALS**

17177 N Laurel Park Dr., Suite 233

Livonia, MI 48152 USA



## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6949(NDC:68180-965)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.025 mg

## Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>FD&amp;C YELLOW NO. 6</b> (UNII: H77VEI93A8)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

## Product Characteristics

<b>Color</b>	ORANGE (Peach)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L15
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6949-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6950(NDC:68180-966)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.05 mg

## Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	WHITE	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L16
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6950-61	100 in 1 CARTON	05/02/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	05/02/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6951(NDC:68180-967)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.075 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	

<b>FD&amp;C BLUE NO. 2</b> (UNII: L06K8R7DQK)	
<b>FD&amp;C RED NO. 40</b> (UNII: WZB9127XOA)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	PURPLE (Violet)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L17
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6951-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6952(NDC:68180-968)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.088 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	



<b>D&amp;C YELLOW NO. 10</b> (UNII: 35SW5USQ3G)	
<b>FD&amp;C BLUE NO. 1</b> (UNII: H3R47K3TBD)	
<b>FD&amp;C YELLOW NO. 6</b> (UNII: H77VEI93A8)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	GREEN (Olive)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L19
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6952-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6953(NDC:68180-969)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.1 mg

### Inactive Ingredients

Ingredient Name	Strength
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<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>D&amp;C YELLOW NO. 10</b> (UNII: 35SW5USQ3G)	
<b>FD&amp;C YELLOW NO. 6</b> (UNII: H77VEI93A8)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	YELLOW	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L20
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6953-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6954(NDC:68180-970)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.112 mg

### Inactive Ingredients

Ingredient Name	Strength
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<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>D&amp;C RED NO. 27</b> (UNII: 2LRS185U6K)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	PINK (Rose)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L21
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6954-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6955(NDC:68180-971)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.125 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	

<b>FD&amp;C BLUE NO. 1</b> (UNII: H3R47K3TBD)
<b>FD&amp;C BLUE NO. 2</b> (UNII: L06K8R7DQK)
<b>FD&amp;C RED NO. 40</b> (UNII: WZB9127XOA)
<b>FD&amp;C YELLOW NO. 6</b> (UNII: H77VEI93A8)
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)
<b>MANNITOL</b> (UNII: 3OWL53L36A)
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)

### Product Characteristics

<b>Color</b>	BROWN (Tan)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L22
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6955-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6956(NDC:68180-973)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.15 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>FD&amp;C BLUE NO. 2</b> (UNII: L06K8R7DQK)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	BLUE	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L24
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6956-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

## LEVOTHYROXINE SODIUM

levothyroxine sodium tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0904-6957(NDC:68180-974)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LEVOTHYROXINE SODIUM</b> (UNII: 9J765S329G) (LEVOTHYROXINE - UNII:Q51BO43MG4)	LEVOTHYROXINE SODIUM ANHYDROUS	0.175 mg

### Inactive Ingredients

Ingredient Name	Strength
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<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>D&amp;C RED NO. 27</b> (UNII: 2LRS185U6K)	
<b>FD&amp;C BLUE NO. 1</b> (UNII: H3R47K3TBD)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM BICARBONATE</b> (UNII: 8MDF5V39QO)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	PURPLE (Lilac)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	L25
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0904-6957-61	100 in 1 CARTON	03/20/2019	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209713	03/20/2019	

**Labeler** - Major Pharmaceuticals (191427277)

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Major Pharmaceuticals