# PHENOBARBITAL- phenobarbital tablet Taro Pharmaceuticals U.S.A. Inc.

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

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#### PHENOBARBITAL TABLETS, USP

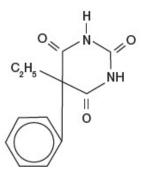
**Rx only** 

#### WARNING: MAY BE HABIT-FORMING DESCRIPTION

The barbiturates are nonselective central nervous system (CNS) depressants that are primarily used as sedative-hypnotics. In subhypnotic doses, they are also used as anticonvulsants. The barbiturates and their sodium salts are subject to control under the Federal Controlled Substances Act.

Phenobarbital is a barbituric acid derivative and occurs as white, odorless, small crystals or crystalline powder that is very slightly soluble in water; soluble in alcohol, in ether, and in solutions of fixed alkali hydroxides and carbonates; sparingly soluble in chloroform.

Phenobarbital is 5-ethyl-5-phenylbarbituric acid. Phenobarbital is a substituted pyrimidine derivative in which the basic structure is barbituric acid, a substance that has no CNS activity. CNS activity is obtained by substituting alkyl, alkenyl, or aryl groups on the pyrimidine ring. It has the following structural formula:



 $C_{12}H_{12}N_2O_3$ 

M.W. = 232.24

Each phenobarbital tablet contains 15 mg, 16.2 mg, 30 mg, 32.4 mg, 60 mg, 64.8 mg, 97.2 mg or 100 mg of phenobarbital.

In addition each tablet contains: colloidal silicon dioxide, lactose monohydrate, magnesium stearate, microcrystalline cellulose and sodium starch glycolate.

## CLINICAL PHARMACOLOGY

Barbiturates are capable of producing all levels of CNS mood alteration, from excitation to mild sedation, hypnosis, and deep coma. Overdosage can produce death. In high enough therapeutic doses, barbiturates induce anesthesia.

Barbiturates depress the sensory cortex, decrease motor activity, alter cerebellar function, and produce drowsiness, sedation, and hypnosis.

Barbiturate-induced sleep differs from physiologic sleep. Sleep laboratory studies have demonstrated that barbiturates reduce the amount of time spent in the rapid eye movement (REM) phase of sleep or the dreaming stage. Also, Stages III and IV sleep are decreased. Following abrupt cessation of barbiturates used regularly, patients may experience markedly increased dreaming, nightmares, and/or insomnia. Therefore, withdrawal of a single therapeutic dose over 5 or 6 days has been recommended to lessen the REM rebound and disturbed sleep that contribute to the drug withdrawal syndrome (for example, decrease the dose from 3 to 2 doses a day for 1 week).

In studies, secobarbital sodium and pentobarbital sodium have been found to lose most of their effectiveness for both inducing and maintaining sleep by the end of 2 weeks of continued drug administration even with the use of multiple doses. As with secobarbital sodium and pentobarbital sodium, other barbiturates (including amobarbital) might be expected to lose their effectiveness for inducing and maintaining sleep after about 2 weeks. The short-, intermediate-, and, to a lesser degree, long-acting barbiturates have been widely prescribed for treating insomnia. Although the clinical literature abounds with claims that the short-acting barbiturates are superior for producing sleep whereas the intermediate-acting compounds are more effective in maintaining sleep, controlled studies have failed to demonstrate these differential effects. Therefore, as sleep medications, the barbiturates are of limited value beyond short-term use.

Barbiturates have little analgesic action at subanesthetic doses. Rather, in subanesthetic doses, these drugs may increase the reaction to painful stimuli. A I barbiturates exhibit anticonvulsant activity in anesthetic doses; however, of the drugs in this class, only phenobarbital, mephobarbital, and metharbital are effective as oral anticonvulsants in subhypnotic doses.

Barbiturates are respiratory depressants, and the degree of respiratory depression is dependent upon the dose. With hypnotic doses, respiratory depression produced by barbiturates is similar to that which occurs during physiologic sleep and is accompanied by a slight decrease in blood pressure and heart rate.

Studies in laboratory animals have shown that barbiturates cause reduction in the tone and contractility of the uterus, ureters, and urinary bladder. However, concentrations of the drugs required to produce this effect in humans are not reached with sedativehypnotic doses.

Barbiturates do not impair normal hepatic function but have been shown to induce liver microsomal enzymes, thus increasing and/or altering the metabolism of barbiturates and other drugs (see **PRECAUTIONS - Drug Interactions**).

#### Pharmacokinetics

Barbiturates are absorbed in varying degrees following oral or parenteral administration. The salts are more rapidly absorbed than are the acids. The rate of absorption is increased if the sodium salt is ingested as a dilute solution or taken on an empty stomach.

Duration of action, which is related to the rate at which the barbiturates are redistributed throughout the body, varies among persons and in the same person from time to time. Phenobarbital is classified as a long-acting barbiturate when taken orally. Its onset of

action is 1 hour or longer, and its duration of action ranges from 10 to 12 hours.

Barbiturates are weak acids that are absorbed and rapidly distributed to all tissues and fluids, with high concentrations in the brain, liver, and kidneys. Lipid solubility of the barbiturates is the dominant factor in their distribution within the body. The more lipid soluble the barbiturate, the more rapidly it penetrates all tissues of the body.

Barbiturates are bound to plasma and tissue proteins to a varying degree with the degree of binding, increasing directly as a function of lipid solubility.

Phenobarbital has the lowest lipid solubility, lowest plasma binding, lowest brain protein binding, the longest delay in onset activity, and the longest duration of action. The plasma half-life for phenobarbital in adults ranges between 53 and 118 hours with a mean of 79 hours. The plasma half-life for phenobarbital in children and newborns (less than 48 hours old) ranges between 60 to 180 hours with a mean of 110 hours.

Barbiturates are metabolized primarily by the hepatic microsomal enzyme system, and the metabolic products are excreted in the urine and, less commonly, in the feces.

Approximately 25% to 50% of a dose of phenobarbital is eliminated unchanged in the urine. The excretion of unmetabolized barbiturate is one feature that distinguishes the long-acting category from those belonging to other categories, which are almost entirely metabolized. The inactive metabolites of the barbiturates are excreted as conjugates of glucuronic acid.

#### INDICATIONS AND USAGE

- A. Sedative
- B. Anticonvulsant For the treatment of generalized and partial seizures.

## CONTRAINDICATIONS

Phenobarbital is contraindicated in patients who are hypersensitive to barbiturates, in patients with a history of manifest or latent porphyria, and in patients with marked impairment of liver function or respiratory disease in which dyspnea or obstruction is evident.

#### WARNINGS

1. *Habit Forming*. Phenobarbital may be habit forming. Tolerance and psychological and physical dependence may occur with continued use (see **DRUG ABUSE AND DEPENDENCE** and Pharmacokinetics under CLINICAL PHARMACOLOGY). Patients who have psychologic dependence on barbiturates may increase the dosage or decrease the dosage interval without consulting a physician and may subsequently develop a physical dependence on barbiturates. In order to minimize the possibility of overdosage or the development of dependence, the prescribing and dispensing of sedative-hypnotic barbiturates should be limited to the amount required for the interval until the next appointment. Abrupt cessation after prolonged use in a person who is dependent on the drug may result in withdrawal symptoms, including delirium, convulsions, and possibly death. Barbiturates should be withdrawn gradually from any patient known to be taking excessive doses over long periods of time (see **DRUG ABUSE AND DEPENDENCE**).

- 2. Acute or Chronic Pain. Caution should be exercised when barbiturates are administered to patients with acute or chronic pain, because paradoxical excitement could be induced or important symptoms could be masked. However, the use of barbiturates as sedatives in the postoperative surgical period and as adjuncts to cancer chemotherapy is well established.
- 3. Usage in Pregnancy. Barbiturates can cause fetal damage when administered to a pregnant woman. Retrospective, case-controlled studies have suggested a connection between the maternal consumption of barbiturates and a higher than expected incidence of fetal abnormalities. Barbiturates readily cross the placental barrier and are distributed throughout fetal tissues; the highest concentrations are found in the placenta, fetal liver, and brain. Fetal blood levels approach maternal blood levels following parenteral administration. Withdrawal symptoms occur in infants born to women who receive barbiturates throughout the last trimester of pregnancy (see **DRUG ABUSE AND DEPENDENCE**). If phenobarbital is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.
- 4. *Usage in Pediatric Patients.* Phenobarbital has been reported to be associated with cognitive deficits in children taking it for complicated febrile seizures.
- 5. *Synergistic Effects.* The concomitant use of alcohol or other CNS depressants may produce additive CNS depressant effects.

## PRECAUTIONS

#### General

Barbiturates may be habit forming. Tolerance and psychological and physical dependence may occur with continued use (see **DRUG ABUSE AND DEPENDENCE**). Barbiturates should be administered with caution, if at all, to patients who are mentally depressed, have suicidal tendencies, or have a history of drug abuse.

Elderly or debilitated patients may react to barbiturates with marked excitement, depression, or confusion. In some persons, especially children, barbiturates repeatedly produce excitement rather than depression. In patients with hepatic damage, barbiturates should be administered with caution and initially in reduced doses. Barbiturates should not be administered to patients showing the premonitory signs of hepatic coma.

The systemic effects of exogenous and endogenous corticosteroids may be diminished by phenobarbital. Thus, this product should be administered with caution to patients with borderline hypoadrenal function, regardless of whether it is of pituitary or of primary adrenal origin.

#### Information for Patients

The following information and instructions should be given to patients receiving barbiturates.

- 1. The use of barbiturates carries with it an associated risk of psychological and/or physical dependence. The patient should be warned against increasing the dose of the drug without consulting a physician.
- 2. Barbiturates may impair the mental and/or physical abilities required for the performance of potentially hazardous tasks, such as driving a car or operating

machinery. The patient should be cautioned accordingly.

3. Alcohol should not be consumed while taking barbiturates. The concurrent use of the barbiturates with other CNS depressants (e.g., alcohol, narcotics, tranquilizers, and antihistamines) may result in additional CNS-depressant effects.

## Laboratory Tests

Prolonged therapy with barbiturates should be accompanied by periodic laboratory evaluation of organ systems, including hematopoietic, renal, and hepatic systems (see **General under PRECAUTIONS and ADVERSE REACTIONS**).

## **Drug Interactions**

Most reports of clinically significant drug interactions occurring with the barbiturates have involved phenobarbital. However, the application of these data to other barbiturates appears valid and warrants serial blood level determinations of the relevant drugs when there are multiple therapies.

- 1. Anticoagulants. Phenobarbital lowers the plasma levels of dicumarol and causes a decrease in anticoagulant activity as measured by the prothrombin time. Barbiturates can induce hepatic microsomal enzymes resulting in increased metabolism and decreased anticoagulant response of oral anticoagulants (e.g., acenocoumarol, warfarin, dicumarol, and phenprocoumon). Patients stabilized on anticoagulant therapy may require dosage adjustments if barbiturates are added to or withdrawn from their dosage regimen.
- 2. *Corticosteroids.* Barbiturates appear to enhance the metabolism of exogenous corticosteroids, probably through the induction of hepatic microsomal enzymes. Patients stabilized on corticosteroid therapy may require dosage adjustments if barbiturates are added to or withdrawn from their dosage regimen.
- 3. *Griseofulvin.* Phenobarbital appears to interfere with the absorption of orally administered griseofulvin, thus decreasing its blood level. The effect of the resultant decreased blood levels of griseofulvin on therapeutic response has not been established. However, it would be preferable to avoid concomitant administration of these drugs.
- 4. *Doxycycline.* Phenobarbital has been shown to shorten the half-life of doxycycline for as long as 2 weeks after barbiturate therapy is discontinued. This mechanism is probably through the induction of hepatic microsomal enzymes that metabolize the antibiotic. If phenobarbital and doxycycline are administered concurrently, the clinical response to doxycycline should be monitored closely.
- 5. Phenytoin, Sodium Valproate, Valproic Acid. The effect of barbiturates on the metabolism of phenytoin appears to be variable. Some investigators report an accelerating effect, whereas others report no effect. Because the effect of barbiturates on the metabolism of phenytoin is not predictable, phenytoin and barbiturate blood levels should be monitored more frequently if these drugs are given concurrently. Sodium valproate and valproic acid increase the phenobarbital serum levels; therefore, phenobarbital blood levels should be closely monitored and appropriate dosage adjustments made as clinically indicated.
- 6. *CNS Depressants.* The concomitant use of other CNS depressants, including other sedatives or hypnotics, antihistamines, tranquilizers, or alcohol, may produce additive depressant effects.
- 7. *Monoamine Oxidase Inhibitors (MAOIs).* MAOIs prolong the effects of barbiturates, probably because metabolism of the barbiturate is inhibited.

8. *Estradiol, Estrone, Progesterone, and other Steroidal Hormones.* Pretreatment with or concurrent administration of phenobarbital may decrease the effect of estradiol by increasing its metabolism. There have been reports of patients treated with antiepileptic drugs (e.g., phenobarbital) who become pregnant while taking oral contraceptives. An alternate contraceptive method might be suggested to women taking phenobarbital.

#### Carcinogenesis

- 1. *Animal Data.* Phenobarbital sodium is carcinogenic in mice and rats after lifetime administration. In mice, it produced benign and malignant liver cell tumors. In rats, benign liver cell tumors were observed very late in life.
- 2. *Human Data*. In a 29-year epidemiological study of 9,136 patients who were treated on an anticonvulsant protocol that included phenobarbital, results indicated a higher than normal incidence of hepatic carcinoma. Previously, some of these patients had been treated with thorotrast, a drug which is known to produce hepatic carcinomas. Thus, this study did not provide sufficient evidence that phenobarbital sodium is carcinogenic in humans.

A retrospective study of 84 children with brain tumors matched to 73 normal controls and 78 cancer controls (malignant disease other than brain tumors) suggested an association between exposure to barbiturates prenatally and an increased incidence of brain tumors.

#### **Usage in Pregnancy**

- 1. *Teratogenic Effects.* Pregnancy Category D See Usage in Pregnancy under WARNINGS.
- 2. *Nonteratogenic Effects.* Reports of infants suffering from long-term barbiturate exposure in utero included the acute withdrawal syndrome of seizures and hyperirritability from birth to a delayed onset of up to 14 days (see **DRUG ABUSE AND DEPENDENCE**).

#### Labor and Delivery

Hypnotic doses of barbiturates do not appear to impair uterine activity significantly during labor. Full anesthetic doses of barbiturates decrease the force and frequency of uterine contractions. Administration of sedative-hypnotic barbiturates to the mother during labor may result in respiratory depression in the newborn. Premature infants are particularly susceptible to the depressant effects of barbiturates. If barbiturates are used during labor and delivery, resuscitation equipment should be available.

Data are not available to evaluate the effect of barbiturates when forceps delivery or other intervention is necessary or to determine the effect of barbiturates on the later growth, development, and functional maturation of the child.

#### **Nursing Mothers**

Caution should be exercised when phenobarbital is administered to a nursing woman, because small amounts of barbiturates are excreted in the milk.

## **ADVERSE REACTIONS**

The following adverse reactions have been reported:

*CNS Depression* – Residual sedation or "hangover", drowsiness, lethargy, and vertigo. Emotional disturbances and phobias may be accentuated. In some persons, barbiturates such as phenobarbital repeatedly produce excitement rather than depression, and the patient may appear to be inebriated. Irritability and hyperactivity can occur in children. Like other nonanalgesic hypnotic drugs, barbiturates such as phenobarbital, when given in the presence of pain, may cause restlessness, excitement, and even delirium. Rarely, the use of barbiturates results in localized or diffuse myalgic, neuralgic, or arthritic pain, especially in psychoneurotic patients with insomnia. The pain may appear in paroxysms, is most intense in the early morning hours, and is most frequently located in the region of the neck, shoulder girdle, and upper limbs. Symptoms may last for days after the drug is discontinued.

*Respiratory/Circulatory* – Respiratory depression, apnea, circulatory collapse.

*Allergic* – Acquired hypersensitivity to barbiturates consists chiefly in allergic reactions that occur especially in persons who tend to have asthma, urticaria, angioedema, and similar conditions. Hypersensitivity reactions in this category include localized swelling, particularly of the eyelids, cheeks, or lips, and erythematous dermatitis. Rarely, exfoliative dermatitis (e.g., Stevens-Johnson syndrome and toxic epidermal necrolysis) may be caused by phenobarbital and can prove fatal. The skin eruption may be associated with fever, delirium, and marked degenerative changes in the liver and other parenchymatous organs. In a few cases, megaloblastic anemia has been associated with the chronic use of phenobarbital.

Other – Nausea and vomiting; headache, osteomalacia.

The following adverse reactions and their incidence were compiled from surveillance of thousands of hospitalized patients who received barbiturates. Because such patients may be less aware of the milder adverse effects of barbiturates, the incidence of these reactions may be somewhat higher in fully ambulatory patients.

## More than 1 in 100 Patients

The most common adverse reaction, estimated to occur at a rate of 1 to 3 patients per 100, is:

Nervous System: Somnolence

## Less than 1 in 100 Patients

Adverse reactions estimated to occur at a rate of less than 1 in 100 patients are listed below, grouped by organ system and by decreasing order of occurrence:

*Nervous System:* Agitation, confusion, hyperkinesia, ataxia, CNS depression, nightmares, nervousness, psychiatric disturbance, hallucinations, insomnia, anxiety, dizziness, abnormality in thinking

Respiratory System: Hypoventilation, apnea

Cardiovascular System: Bradycardia, hypotension, syncope

Digestive System: Nausea, vomiting, constipation

Other Reported Reactions: Headache, injection site reactions, hypersensitivity reactions

(angioedema, skin rashes, exfoliative dermatitis), fever, liver damage, megaloblastic anemia following chronic phenobarbital use

#### To report SUSPECTED ADVERSE REACTIONS, contact Allucent at 1-866-511-6754 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

## DRUG ABUSE AND DEPENDENCE

## **Controlled Substance**

Phenobarbital is a Schedule IV drug.

## Dependence

Barbiturates may be habit forming. Tolerance, psychological dependence, and physical dependence may occur, especially following prolonged use of high doses of barbiturates. Daily administration in excess of 400 mg of pentobarbital or secobarbital for approximately 90 days is likely to produce some degree of physical dependence. A dosage of 600 to 800 mg taken for at least 35 days is sufficient to produce withdrawal seizures. The average daily dose for the barbiturate addict is usually about 1.5 g. As tolerance to barbiturates develops, the amount needed to maintain the same level of intoxication increases; tolerance to a fatal dosage, however, does not increase more than twofold. As this occurs, the margin between intoxicating dosage and fatal dosage becomes smaller.

Symptoms of acute intoxication with barbiturates include unsteady gait, slurred speech, and sustained nystagmus. Mental signs of chronic intoxication include confusion, poor judgment, irritability, insomnia, and somatic complaints.

Symptoms of barbiturate dependence are similar to those of chronic alcoholism. If an individual appears to be intoxicated with alcohol to a degree that is radically disproportionate to the amount of alcohol in his or her blood, the use of barbiturates should be suspected. The lethal dose of a barbiturate is far less if alcohol is also ingested.

The symptoms of barbiturate withdrawal can be severe and may cause death. Minor withdrawal symptoms may appear 8 to 12 hours after the last dose of a barbiturate. These symptoms usually appear in the following order: anxiety, muscle twitching, tremor of hands and fingers, progressive weakness, dizziness, distortion in visual perception, nausea, vomiting, insomnia, and orthostatic hypotension. Major withdrawal symptoms (convulsions and delirium) may occur within 16 hours and last up to 5 days after abrupt cessation of barbiturates. The intensity of withdrawal symptoms gradually declines over a period of approximately 15 days. Individuals susceptible to barbiturate abuse and dependence include alcoholics and opiate abusers as well as other sedative-hypnotic and amphetamine abusers.

Drug dependence on barbiturates arises from repeated administration of a barbiturate or agent with barbiturate-like effect on a continuous basis, generally in amounts exceeding therapeutic dose levels. The characteristics of drug dependence on barbiturates include: (a) a strong desire or need to continue taking the drug; (b) a tendency to increase the dose; (c) a psychic dependence on the effects of the drug related to subjective and individual appreciation of those effects; and (d) a physical dependence on the effects of the drug, requiring its presence for maintenance of homeostasis and resulting in a definite, characteristic, and self-limited abstinence syndrome when the drug is withdrawn.

Treatment of barbiturate dependence consists of cautious and gradual withdrawal of the drug. Barbiturate-dependent patients can be withdrawn by using a number of different withdrawal regimens. In all cases, withdrawal requires an extended period of time. One method involves substituting a 30-mg dose of phenobarbital for each 100- to 200-mg dose of barbiturate that the patient has been taking. The total daily amount of phenobarbital is then administered in 3 or 4 divided doses, not to exceed 600 mg daily. If signs of withdrawal occur on the first day of treatment, a loading dose of 100 to 200 mg of phenobarbital may be administered IM in addition to the oral dose. After stabilization on phenobarbital, the total daily dose is decreased by 30 mg/day as long as withdrawal is proceeding smoothly. A modification of this regimen involves initiating treatment at the patient's regular dosage level and decreasing the daily dosage by 10% if tolerated by the patient.

Infants who are physically dependent on barbiturates may be given phenobarbital, 3 to 10 mg/kg/day. After withdrawal symptoms (hyperactivity, disturbed sleep, tremors, and hyperreflexia) are relieved, the dosage of phenobarbital should be gradually decreased and completely withdrawn over a 2-week period.

## OVERDOSAGE

#### Signs and Symptoms

The onset of symptoms following a toxic oral exposure to phenobarbital may not occur until several hours following ingestion. The toxic dose of barbiturates varies considerably. In general, an oral dose of 1 g of most barbiturates produces serious poisoning in an adult. Death commonly occurs after 2 to 10 g of ingested barbiturate. The sedated, therapeutic blood levels of phenobarbital range between 5 to 40 mcg/mL; the usual lethal blood level ranges from 100 to 200 mcg/mL. Barbiturate intoxication may be confused with alcoholism, bromide intoxication, and various neurologic disorders. Potential tolerance must be considered when evaluating significance of dose and plasma concentration.

The manifestations of a long-acting barbiturate in overdose include nystagmus, ataxia, CNS depression, respiratory depression, hypothermia, and hypotension. Other findings may include absent or depressed reflexes and erythematous or hemorrhagic blisters (primarily at pressure points). Following massive exposure to phenobarbital, pulmonary edema, circulatory collapse with loss of peripheral vascular tone, cardiac arrest, and death may occur.

In extreme overdose, al electrical activity in the brain may cease, in which case a "flat" EEG normally equated with clinical death should not be accepted. This effect is fully reversible unless hypoxic damage occurs.

Consideration should be given to the possibility of barbiturate intoxication even in situations that appear to involve trauma.

Complications such as pneumonia, pulmonary edema, cardiac arrhythmias, congestive heart failure, and renal failure may occur. Uremia may increase CNS sensitivity to

barbiturates if renal function is impaired. Differential diagnosis should include hypoglycemia, head trauma, cerebrovascular accidents, convulsive states, and diabetic coma.

## Treatment

To obtain up-to-date information about the treatment of overdose, a good resource is your certified Regional Poison Control Center. Telephone numbers of certified poison control centers are listed in the Physicians' Desk Reference (PDR). In managing overdosage, consider the possibility of multiple drug overdoses, interaction among drugs, and unusual drug kinetics in your patient.

Protect the patient's airway and support ventilation and perfusion. Meticulously monitor and maintain, within acceptable limits, the patient's vital signs, blood gases, serum electrolytes, etc. Absorption of drugs from the gastrointestinal tract may be decreased by giving activated charcoal, which, in many cases, is more effective than emesis or lavage; consider charcoal instead of or in addition to gastric emptying. Repeated doses of charcoal over time may hasten elimination of some drugs that have been absorbed. Safeguard the patient's airway when employing gastric emptying or charcoal.

Alkalinization of urine hastens phenobarbital excretion, but dialysis and hemoperfusion are more effective and cause less troublesome alterations in electrolyte equilibrium. If the patient has chronically abused sedatives, withdrawal reactions may be manifest following acute overdose.

## DOSAGE AND ADMINISTRATION

The dose of phenobarbital must be individualized with full knowledge of its particular characteristics. Factors of consideration are the patient's age, weight, and condition.

## Sedation

For sedation, the drug may be administered in single dose of 30 to 120 mg repeated at intervals: frequency will be determined by the patient's response. It is generally considered that no more than 400 mg of phenobarbital should be administered during a 24-hour period.

Adults

Daytime Sedation: 30 to 120 mg daily in 2 to 3 divided doses.

Oral Hypnotic: 100 to 200 mg.

# Anticonvulsant Use

Clinical laboratory reference values should be used to determine the therapeutic anticonvulsant level of phenobarbital in the serum. To achieve the blood levels considered therapeutic in pediatric patients, higher per-kilogram dosages are generally necessary for phenobarbital and most other anticonvulsants. In children and infants, phenobarbital at a loading dose of 15 to 20 mg/kg produces blood levels of about 20 mcg/mL shortly after administration.

Phenobarbital has been used in the treatment and prophylaxis of febrile seizures.

However, it has not been established that prevention of febrile seizures influences the subsequent development of epilepsy.

Adults: 60 to 200 mg/day.

Pediatric Patients: 3 to 6 mg/kg/day.

## **Special Patient Population**

Dosage should be reduced in the elderly or debilitated because these patients may be more sensitive to barbiturates. Dosage should be reduced for patients with impaired renal function or hepatic disease.

## HOW SUPPLIED

Phenobarbital Tablets, USP are round, white bisected tablets and supplied as follows:

Strength (mg)	Tablet Markings Description	NDC# for bottles of 100	NDC# for bottles of 1000
15	Round, white tablet, plain on one side embossed with "1", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5331-1	51672-5331-3
16.2	Round, white tablet, plain on one side embossed with "2", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5326-1	51672-5326-3
30	Round, white tablet, plain on one side embossed with "7", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5332-1	51672-5332-3
	Round, white tablet, plain on one side embossed with "5", bisect on other side with "L" embossed on one side of bisect and "H"	51672-5327-1	51672-5327-3

	embossed on the other side.		
60	Round, white tablet, plain on one side embossed with "17", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5333-1	51672-5333-3
64.8	Round, white tablet, plain on one side embossed with "25", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5328-1	51672-5328-3
97.2	Round, white tablet, plain on one side embossed with "52", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5329-1	51672-5329-3
100	Round, white tablet, plain on one side embossed with "71", bisect on other side with "L" embossed on one side of bisect and "H" embossed on the other side.	51672-5334-1	51672-5334-3

Manufactured for: Taro Pharmaceuticals U.S.A. Inc. Hawthorne, NY 10532

Revised: May 2024

#### PRINCIPAL DISPLAY PANEL - 16.2 mg Tablet Bottle Label

PHENOBARBITAL CIV TABLETS, USP

16.2 mg

WARNING: May be habit forming.

Rx only

# Net Contents: 100 tablets NDC 51672-5326-1



#### **PRINCIPAL DISPLAY PANEL - 32.4 mg Tablet Bottle Label**

PHENOBARBITAL CIV TABLETS, USP

32.4 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5327-1



## PRINCIPAL DISPLAY PANEL - 64.8 mg Tablet Bottle Label

PHENOBARBITAL CIV TABLETS, USP 64.8 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5328-1



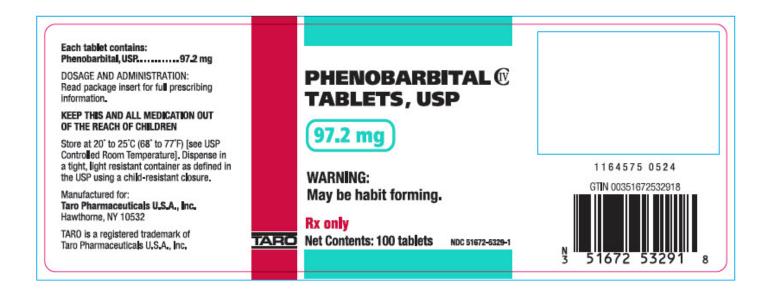
## **PRINCIPAL DISPLAY PANEL - 97.2 mg Tablet Bottle Label**

PHENOBARBITAL CIV TABLETS, USP

97.2 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5329-1



## PRINCIPAL DISPLAY PANEL - 15 mg Tablet Bottle Label

PHENOBARBITAL CIV TABLETS, USP

15 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5331-1



## PRINCIPAL DISPLAY PANEL - 30 mg Tablet Bottle Label

PHENOBARBITAL CIV TABLETS, USP

30 mg

WARNING:

May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5332-1



## PRINCIPAL DISPLAY PANEL - 60 mg Tablet Bottle Label

PHENOBARBITAL CIV TABLETS, USP

60 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5333-1



#### **PRINCIPAL DISPLAY PANEL - 100 mg Tablet Bottle Label**

PHENOBARBITAL CIV TABLETS, USP

100 mg

WARNING: May be habit forming.

Rx only Net Contents: 100 tablets NDC 51672-5334-1



## PHENOBARBITAL

phenobarbital tablet

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem Code	(Source)	ND	C:51672-5320
Route of Administration	ORAL	DEA Sched	ule	CIV	
- ··· · · ··· ··					
Active Ingredient/Active	e Moiety				
Ingr	edient Name		<b>Basis of Stren</b>	gth	Strength
Phenobarbital (UNII: YQE403BP4	D) (Phenobarbital - UNII:YQE	103BP4D)	Phenobarbital		16.2 mg
Inactive Ingredients					
	Ingredient Name			S	trength
SILICON DIOXIDE (UNII: ETJ7Z6X	BU4)				
	,				
LACTOSE MONOHYDRATE (UNII					

sc	DIUM STARCH	GLYCOLAT	E TYPE A (UNI	I: H8AV0SQX4D)		
Pı	roduct Chai	racteristi	cs			
Co	olor		WHITE Score			2 pieces
Sł	nape		ROUND	Size		6mm
Fla	avor			Imprint Code		L;H;2
Co	ontains					
_						
Pa	ackaging					
#	Item Code		Package D	escription	Marketing Star Date	t Marketing End Date
	NDC:51672- 5326-1	100 in 1 BC Combinatio	OTTLE, PLASTIC n Product	; Type 0: Not a	08/01/2024	
2	NDC:51672- 5326-3	1000 in 1 B Combinatio		C; Type 0: Not a	08/01/2024	
м	larketing	Inform	ation			
	Marketing		lication Num	ber or Monograph ation	Marketing Start Date	Marketing End Date
1.1	Category		Cit	ation	Date	Date

PHENOBARBITAL phenobarbital tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem Code	(Source)	NDC	2:51672-5327
Route of Administration	ORAL	DEA Schedu	ule	CIV	
Active Ingredient/Active	Moiety				
Ingre	edient Name		Basis of Streng	gth	Strength
Phenobarbital (UNII: YQE403BP4	D) (Phenobarbital - UNII:YQE4	03BP4D)	Phenobarbital		32.4 mg
Inactive Ingredients					
	Ingredient Name			S	trength
SILICON DIOXIDE (UNII: ETJ7Z6XI	3U4)				
LACTOSE MONOHYDRATE (UNII:	EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70	097M6I30)				
MICROCRYSTALLINE CELLULOS	<b>E</b> (UNII: OP1R32D61U)				
SODIUM STARCH GLYCOLATE T					

Pı	oduct Char	racterist	ics			
Co	lor		WHITE	Score		2 pieces
Sh	аре		ROUND	Size		7mm
Fla	avor			Imprint Code		L;H;5
Co	ntains					
Pa	ackaging					
#	ltem Code		Package D	Description	Marketing Start Date	: Marketing End Date
	NDC:51672- 5327-1	100 in 1 BC Combinatio	OTTLE, PLASTIC	; Type 0: Not a	08/01/2024	
	NDC:51672- 5327-3	1000 in 1 E Combinatio		C; Type 0: Not a	08/01/2024	
Μ	arketing	Inform	nation			
	Marketing Category	Арр		ber or Monograph ation	Marketing Start Date	Marketing End Date
	approved drug				08/01/2024	

PHENOBARBITAL					
phenobarbital tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code	(Source)	NDC:5167	2-5328
Route of Administration	ORAL	DEA Schedu	ule	CIV	
Active Ingredient/Active	Moiety				
Ingre	dient Name		<b>Basis of Streng</b>	th Stre	ength
Phenobarbital (UNII: YQE403BP4	D) (Phenobarbital - UNII:YQE40	3BP4D)	Phenobarbital	64.8	mg
Inactive Ingredients					
<b>,</b>	Ingredient Name			Streng	gth
SILICON DIOXIDE (UNII: ETJ7Z6XB	SU4)				
LACTOSE MONOHYDRATE (UNII:	EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70	097M6I30)				
MICROCRYSTALLINE CELLULOSI	· ·				
SODIUM STARCH GLYCOLATE TY	<b>YPE A</b> (UNII: H8AV0SQX4D)				

Ρ	roduct Char	acteristi	ics				
Co	olor		WHITE	Score	2 pieces		
Sł	nape		ROUND	Size		9mm	
Fla	avor			Imprint Code		L;H;25	
Co	ontains						
Pa	ackaging						
#	ltem Code		Package Desc	ription	Marketing Start Date	Marketing End Date	
1	NDC:51672- 5328-1	100 in 1 BC Combinatio	OTTLE, PLASTIC; Type on Product	e 0: Not a	08/01/2024		
2	NDC:51672- 5328-3	1000 in 1 B Combinatio	OTTLE, PLASTIC; Typ on Product	oe 0: Not a	08/01/2024		
_							
Μ	larketing	Inform	nation				
	Marketing Category	Арр	lication Number Citation		Marketing Start Date	Marketing End Date	
	happroved drug her				08/01/2024		

PHENOBARBITAL						
phenobarbital tablet						
Product Information						
Product Type	HUMAN PRESCRIF DRUG	PTION	em Code (	Source)	NDC	2:51672-5329
Route of Administration	ORAL	DE	A Schedu	ıle	CIV	
	Maiatu					
<b>Active Ingredient/Active</b>	emolety					
-	redient Name			Basis of St	rength	Strength
-	redient Name	UNII:YQE403BP4	4D)	Basis of St Phenobarbital	rength	<b>Strength</b> 97.2 mg
Ing	redient Name	UNII:YQE403BP4	4D)		rength	-
Ing Phenobarbital (UNII: YQE403BP	redient Name		4D)			-
Ing Phenobarbital (UNII: YQE403BP	redient Name 4D) (Phenobarbital - Ingredient		4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients	redient Name 4D) (Phenobarbital - Ingredient KBU4)		4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients SILICON DIOXIDE (UNII: ETJ726)	redient Name 4D) (Phenobarbital - Ingredient KBU4) I: EWQ57Q8I5X)		4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients SILICON DIOXIDE (UNII: ETJ726) LACTOSE MONOHYDRATE (UNI	redient Name 4D) (Phenobarbital - Ingredient KBU4) I: EWQ57Q8I5X) 20097M6I30)	Name	4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients SILICON DIOXIDE (UNII: ETJ7Z 62 LACTOSE MONOHYDRATE (UNII: 72	redient Name 4D) (Phenobarbital - Ingredient KBU4) I: EWQ57Q8I5X) 70097M6I30) SE (UNII: OP1R32D6	<b>Name</b> 1U)	4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients SILICON DIOXIDE (UNII: ETJ726) LACTOSE MONOHYDRATE (UNII: 7 MICROCRYSTALLINE CELLULO	redient Name 4D) (Phenobarbital - Ingredient KBU4) I: EWQ57Q8I5X) 70097M6I30) SE (UNII: OP1R32D6	<b>Name</b> 1U)	4D)			97.2 mg
Ing Phenobarbital (UNII: YQE403BP Inactive Ingredients SILICON DIOXIDE (UNII: ETJ726) LACTOSE MONOHYDRATE (UNII: 7 MICROCRYSTALLINE CELLULO	redient Name 4D) (Phenobarbital - Ingredient KBU4) 1: EWQ57Q8I5X) 70097M6I30) SE (UNII: OP1R32D6 TYPE A (UNII: H8AV	<b>Name</b> 1U)	4D)			97.2 mg

	аре	ROU	JND	Size			10mm	
Fla	avor			Imprint Code			L;H;52	
Co	ntains							
Pa	ackaging							
#	Item Code	Pa	ackage Desci	ription	Marl	ceting Start Date		eting En Date
	NDC:51672- 5329-1	100 in 1 BOTTL Combination Pr	E, PLASTIC; Type	e 0: Not a	08/01/2			Date
	NDC:51672- 5329-3	1000 in 1 BOTT Combination Pr	LE, PLASTIC; Typ oduct	be 0: Not a	08/01/2	2024		
Μ	arketing	Informat	ion					
	Marketing Category	Applica	tion Number ( Citatior	or Monograph า	Mark	eting Start Date		eting End Date
	approved drug				08/01/2	024		
	roduct Info							
Pı	roduct Info roduct Type		HUMAN PRESCP		em Code (	Source)	NDO	C:51672-53
Pı Pr		rmation	HUMAN PRESCR DRUG ORAL	It a	em Code ( EA Schedu	-	NDO	
Pı Pr Rc	oduct Type oute of Admir	rmation nistration	DRUG ORAL	It a	-	-		
Pı Pr Rc	oduct Type oute of Admir	rmation	DRUG ORAL	It a	-	-		C:51672-53
Pı Pr Rc	oduct Type oute of Admir ctive Ingrec	rmation histration lient/Active Ingre	DRUG ORAL Moiety edient Name		EA Schedu	Basis of St	CIV	Strengt
Pı Pr Rc	oduct Type oute of Admir ctive Ingrec	rmation histration lient/Active Ingre	DRUG ORAL Moiety edient Name	It a	EA Schedu	lle	CIV	
Pı Pr Ra Ac	oduct Type oute of Admir ctive Ingrec	rmation histration lient/Active Ingre	DRUG ORAL Moiety edient Name		EA Schedu	Basis of St	CIV	Strengt
Pı Pr Ra Ac	oduct Type oute of Admir ctive Ingrec enobarbital (U	rmation histration lient/Active Ingre	DRUG ORAL Moiety edient Name	I - UNII:YQE403BF	EA Schedu	Basis of St	CIV rength	Streng
Pı Pr Rc Ac	oduct Type oute of Admir ctive Ingrec enobarbital (U active Ingre	rmation histration lient/Active Ingre	DRUG ORAL Moiety edient Name D) (Phenobarbita	I - UNII:YQE403BF	EA Schedu	Basis of St	CIV rength	<b>Streng</b> 15 mg
Pi Rc Ac Ph	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr LICON DIOXIDE CTOSE MONO	rmation histration lient/Active Ingre INII: YQE403BP4I edients E (UNII: ETJ7Z6XE HYDRATE (UNII:	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredient 8U4) EWQ57Q8I5X)	I - UNII:YQE403BF	EA Schedu	Basis of St	CIV rength	<b>Streng</b> 15 mg
Pr Rc Ac Ph In SIL	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr active Ingr LICON DIOXIDE CTOSE MONOL	rmation histration lient/Active lngre INII: YQE403BP4I edients E (UNII: ETJ7Z6XE HYDRATE (UNII: ARATE (UNII: 70	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredient 8U4) EWQ57Q8I5X) 097M6I30)	I - UNII:YQE403BF	EA Schedu	Basis of St	CIV rength	<b>Streng</b> 15 mg
Pr Rc Ac Ph In Sill LA MJ	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr LICON DIOXIDE CTOSE MONOR AGNESIUM STE CROCRYSTALL	rmation histration lient/Active lngre NIII: YQE403BP4I edients : (UNII: ETJ7Z6XE HYDRATE (UNII: ARATE (UNII: 70 INE CELLULOSI	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredient 3U4) EWQ57Q8I5X) 097M6I30) E (UNII: OP1R32E	1 - UNII:YQE403BF <b>t Name</b>	EA Schedu	Basis of St	CIV rength	<b>Streng</b> 15 mg
Pr Rc Ac Ph In Sill LA MJ	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr LICON DIOXIDE CTOSE MONOR AGNESIUM STE CROCRYSTALL	rmation histration lient/Active lngre INII: YQE403BP4I edients E (UNII: ETJ7Z6XE HYDRATE (UNII: ARATE (UNII: 70	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredient 3U4) EWQ57Q8I5X) 097M6I30) E (UNII: OP1R32E	1 - UNII:YQE403BF <b>t Name</b>	EA Schedu	Basis of St	CIV rength	<b>Strengt</b> 15 mg
Pr Rc Ac Ph In Sill LA MJ SO	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr LICON DIOXIDE CTOSE MONOR AGNESIUM STE CROCRYSTALL	rmation histration lient/Active ingre NII: YQE403BP4I edients : (UNII: ETJ7Z6XE HYDRATE (UNII: ARATE (UNII: 70 INE CELLULOSI GLYCOLATE TY	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredient 3U4) EWQ57Q8I5X) 097M6I30) E (UNII: OP1R32E	1 - UNII:YQE403BF <b>t Name</b>	EA Schedu	Basis of St	CIV rength	<b>Streng</b> 15 mg
Pr Rc Ph In Sill LA MI SO Pr	oduct Type oute of Admir ctive Ingred enobarbital (U active Ingr active Ingr active Ingr active Ingr active Ingr active Ingr CTOSE MONO AGNESIUM STE CROCRYSTALL	rmation histration lient/Active ingre NII: YQE403BP4I edients : (UNII: ETJ7Z6XE HYDRATE (UNII: ARATE (UNII: 70 INE CELLULOSI GLYCOLATE TY	DRUG ORAL Moiety edient Name D) (Phenobarbita Ingredien 3U4) EWQ57Q8I5X) 097M6I30) E (UNII: OP1R32E YPE A (UNII: H8A	1 - UNII:YQE403BF <b>t Name</b>	EA Schedu	l <b>le</b> Basis of Stu Phenobarbital	CIV rength	<b>Strengt</b> 15 mg

Shape

Flavor

ROUND

Size

Imprint Code

6mm L;H;1

Contains								
Packaging								
# Item Code	e F	ackage Desci	ription		Mark	eting Start Date	Mai	rketing En Date
<b>1</b> NDC:51672- 5331-1	100 in 1 BOTT Combination F	LE, PLASTIC; Type	e 0: Not a		08/01/2			Date
2 NDC:51672- 5331-3		TLE, PLASTIC; Typ	oe 0: Not a		08/01/2	2024		
2221-2	Combination P	Toduct						
Marketing								
Marketing Category		ation Number ( Citatior	or Monogra า	pn	магк	eting Start Date	ма	rketing End Date
Unapproved drug other	J			0	8/01/20	24		
	I							
phenobarbital	tablet							
Product Inf	ormation							
Product Type		HUMAN PRESCF DRUG	RIPTION	ltem C	ode (S	Source)	N	IDC:51672-53
Route of Adm	inistration	ORAL		DEA So	chedu	le	C	IV
Active Ingre		-						
	-	redient Name				Basis of Str	engtl	-
Phenobarbital	(UNII: YQE403BP4	1D) (Phenobarbita	I - UNII:YQE403	3BP4D)		Phenobarbital		30 mg
Inactive Ing	redients							
		Ingredien	t Name					Strength
	E (UNII: ETJ7Z6)	(BU4)						
LACTOSE MONO	OHYDRATE (UNII	: EWQ57Q8I5X)						
MAGNESIUM ST								
		SE (UNII: OP1R32D						
SODIUM STARC	H GLYCOLATE	FYPE A (UNII: H8A	VUSQX4D)					
Product Cha	aracteristics							
Color		HITE	Score			2	piece	S
Shape	RC	DUND	Size				mm	
Flavor			Imprint Cod	de		L	;H;7	

Contains

Pa	ackaging							
#	Item Code	Р	ackage Descrij	otion	Mar	keting Start Date		eting End Date
	NDC:51672- 5332-1	100 in 1 BOTT Combination P	LE, PLASTIC; Type 0 roduct	: Not a	08/01/	2024		
	NDC:51672- 5332-3	1000 in 1 BOT Combination P	TLE, PLASTIC; Type roduct	0: Not a	08/01/	2024		
Μ	arketing	Informat	tion					
	Marketing Category	Applica	ation Number or Citation	Monograph	Mark	eting Start Date		eting End Date
Una oth	approved drug				08/01/2	024		
one	enobarbital ta	iblet						
Pr	roduct Info	rmation						
Pro	oduct Type		HUMAN PRESCRIP DRUG	TION	em Code (	(Source)	NDO	2:51672-533
Ro	oute of Admin	istration	ORAL	DI	EA Schedu	le	CIV	
Ac	tive Ingred	lient/Active	Moiety					
		Ingr	edient Name			Basis of St	rength	Strength
Phe	<b>enobarbital</b> (U	NII: YQE403BP4	D) (Phenobarbital -	UNII:YQE403BF	24D)	Phenobarbital		60 mg
Ina	active Ingr	edients						
			Ingredient	Name			S	trength
				lanc				
SIL	ICON DIOXIDE	(UNII: ETJ7Z6X	BU4)	lanc				
LAC	CTOSE MONOI	HYDRATE (UNII:	EWQ57Q8I5X)	iunic				
LAC MA	CTOSE MONOR	HYDRATE (UNII: ARATE (UNII: 70	EWQ57Q8I5X) 0097M6I30)					
LAC MA MIC	CTOSE MONOR GNESIUM STE CROCRYSTALL	HYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS	EWQ57Q8I5X) 0097M6I30) E (UNII: OP1R32D6	1U)				
LAC MA MIC	CTOSE MONOR GNESIUM STE CROCRYSTALL	HYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS	EWQ57Q8I5X) 0097M6I30)	1U)				
LAC MA MIC SO	CTOSE MONOR GNESIUM STE CROCRYSTALL	IYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS GLYCOLATE T	EWQ57Q8I5X) 0097M6I30) E (UNII: OP1R32D6	1U)				
LAC MA MIC SO	CTOSE MONOF GNESIUM STE CROCRYSTALL DIUM STARCH	AYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS GLYCOLATE T CACTERISTICS	EWQ57Q8I5X) 0097M6I30) 5E (UNII: OP1R32D6) 5YPE A (UNII: H8AVC	1U)			2 pieces	
LAC MA SO Pr Co	CTOSE MONOR GNESIUM STE CROCRYSTALL DIUM STARCH	AYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS GLYCOLATE T CACTERISTICS	EWQ57Q8I5X) 0097M6I30) E (UNII: OP1R32D6 YPE A (UNII: H8AVC	1U) )SQX4D)			2 pieces 9mm	
LAC MA SO Pr Co Sh	CTOSE MONOR GRESIUM STE CROCRYSTALL DIUM STARCH O <b>ODUCT Char</b> lor	AYDRATE (UNII: ARATE (UNII: 70 INE CELLULOS GLYCOLATE T CACTERISTICS	EWQ57Q8I5X) 0097M6I30) E (UNII: OP1R32D6 TYPE A (UNII: H8AVC	1U) )SQX4D) ; <b>core</b>		2		

Packaging

#	Item Code	Package Description	Date Date	Marketing End Date		
1	NDC:51672- 5333-1	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	08/01/2024			
2	NDC:51672- 5333-3	1000 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product 08/01/2024				
P	Marketing Information					
	Marketing	Application Number or Monograph	Marketing Start	Marketing End		
	Category	Citation	Date	Date		
	Category napproved drug her	Citation	08/01/2024	Date		

PHENOBARBITAL							
phenobarbital tablet							
Product Info	rmation						
Product Type		HUMAN PRESCR DRUG	RIPTION	Item Code (Source)		ND	C:51672-5334
Route of Admin	istration	ORAL		DEA Sched	ule	CIV	/
Active Ingred	Active Ingredient/Active Moiety						
	Ingredient Name Basis of Stree		rength	Strength			
Phenobarbital (U	NII: YQE403BP	4D) (Phenobarbital	- UNII:YQE403	BP4D)	Phenobarbital		100 mg
Inactive Ingre	edients						
Ingredient Name						9	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)							
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)							
MAGNESIUM STE	MAGNESIUM STEARATE (UNII: 70097M6I30)						
MICROCRYSTALL	INE CELLULO	SE (UNII: OP1R32D	061U)				
SODIUM STARCH	GLYCOLATE	TYPE A (UNII: H8A	V0SQX4D)				
Product Char	acteristics	5					
Color		HITE	Score			2 pieces	
Shape		DUND	Size		10mm		
Flavor		Imprint Code		L;H;71			
Contains							
Packaging							
# Item Code	F	Package Description Marketing Date		rketing Start Date	Mark	eting End Date	
NDC:51672-	100 in 1 BOTT	LE, PLASTIC; Type	e 0: Not a	08/01	12021		

NDC:51672- 5334-3	1000 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	08/01/2024			
Marketing Information					
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
approved drug er		08/01/2024			
	Marketing Category pproved drug	Marketing Category Application Number or Monograph Citation   pproved drug Figure 1	Marketing Category Application Number or Monograph Citation Marketing Start Date   pproved drug 08/01/2024		

Labeler - Taro Pharmaceuticals U.S.A. Inc. (145186370)

Registrant - Genus Lifesciences Inc. (113290444)

Establishment				
Name	Address	ID/FEI	Business Operations	
Genus Lifesciences Inc.			MANUFACTURE(51672-5331, 51672-5326, 51672-5332, 51672-5327, 51672-5333, 51672-5328, 51672-5329, 51672-5334), PACK(51672-5331, 51672-5326, 51672-5332, 51672-5327, 51672-5333, 51672-5328, 51672-5329, 51672-5334), LABEL(51672-5331, 51672-5326, 51672-5332, 51672-5327, 51672-5333, 51672-5328, 51672-5329, 51672-5334)	

Revised: 7/2024

Taro Pharmaceuticals U.S.A. Inc.