

#### Felbamate Oral Suspension, USP 600 mg/5 mL

Before prescribing felbamate, the physician should be thoroughly familiar with the details of this prescribing information.

**FELBAMATE SHOULD NOT BE USED BY PATIENTS UNTIL THERE HAS BEEN A COMPLETE DISCUSSION OF THE RISKS AND THE PATIENT, PARENT, OR GUARDIAN HAS BEEN PROVIDED THE FELBAMATE WRITTEN ACKNOWLEDGMENT (SEE PATIENT/PHYSICIAN ACKNOWLEDGMENT FORM).**

**WARNING**  
**1. APLASTIC ANEMIA**  
THE USE OF FELBAMATE IS ASSOCIATED WITH A MARKED INCREASE IN THE INCIDENCE OF APLASTIC ANEMIA. ACCORDINGLY, FELBAMATE SHOULD ONLY BE USED IN PATIENTS WHOSE RISK IS SO LOW AS TO BE DEEMED ACCEPTABLE IN LIGHT OF THE BENEFITS CONFERRED BY ITS USE (SEE INDICATIONS). ORDINARILY, A PATIENT SHOULD NOT BE PLACED ON AND/OR CONTINUED ON FELBAMATE WITHOUT CONSIDERATION OF APPROPRIATE EXPERT HEMATOLOGIC CONSULTATION.

AMONG FELBAMATE TREATED PATIENTS, APLASTIC ANEMIA (PANCYTOPENIA IN THE PRESENCE OF A BONE MARROW LARGELY DEPLETED OF HEMATOPOIETIC PRECURSORS) OCCURS AT AN INCIDENCE THAT MAY BE MORE THAN A 100 FOLD GREATER THAN THAT SEEN IN THE UNEXPOSED POPULATION (I.E., 2 TO 5 PER MILLION PERSONS PER YEAR). THE RISK OF DEATH IN PATIENTS WITH APLASTIC ANEMIA GENERALLY VARIES AS A FUNCTION OF ITS SEVERITY AND ETIOLOGY. CURRENT ESTIMATES OF THE OVERALL CASE FATALITY RATE ARE IN THE RANGE OF 20 TO 30%, BUT RATES AS HIGH AS 70% HAVE BEEN REPORTED IN THE PAST.

THERE ARE TOO FEW FELBAMATE ASSOCIATED CASES, AND TOO LITTLE KNOW ABOUT THEM TO PROVIDE A RELIABLE ESTIMATE OF THE SYNDROME'S INCIDENCE OR ITS CASE FATALITY RATE OR TO IDENTIFY THE FACTORS, IF ANY, THAT MIGHT CONCEIVABLY BE USED TO PREDICT WHO IS AT GREATER OR LESSER RISK.

IN MANAGING PATIENTS ON FELBAMATE, IT SHOULD BE BORNE IN MIND THAT THE CLINICAL MANIFESTATION OF APLASTIC ANEMIA AMONG FELBAMATE EXPOSED PATIENTS FOR WHOM DATA ARE AVAILABLE HAS RANGED FROM 5 TO 30 WEEKS; HOWEVER, THE INJURY TO BONE MARROW STEM CELLS THAT IS HELD TO BE ULTIMATELY RESPONSIBLE FOR THE ANEMIA MAY OCCUR WEEKS TO MONTHS EARLIER. ACCORDINGLY, PATIENTS WHO ARE DISCONTINUED FROM FELBAMATE REMAIN AT RISK FOR DEVELOPING ANEMIA FOR A VARIABLE AND UNKNOWN PERIOD AFTERWARDS.

IT IS NOT KNOWN WHETHER OR NOT THE RISK OF DEVELOPING APLASTIC ANEMIA CHANGES WITH DURATION OF EXPOSURE. CONSEQUENTLY, IT IS NOT SAFE TO ASSUME THAT A PATIENT WHO HAS BEEN ON FELBAMATE WITHOUT SIGNS OF HEMATOLOGIC ABNORMALITY FOR LONG PERIODS OF TIME IS WITHOUT RISK.

IT IS NOT KNOWN WHETHER OR NOT THE DOSE OF FELBAMATE AFFECTS THE INCIDENCE OF APLASTIC ANEMIA.

IT IS NOT KNOWN WHETHER OR NOT CONCOMITANT USE OF ANTI-EPILEPTIC DRUGS AND/OR OTHER DRUGS AFFECTS THE INCIDENCE OF APLASTIC ANEMIA.

APLASTIC ANEMIA TYPICALLY DEVELOPS WITHOUT PREMONITORY CLINICAL OR LABORATORY SIGNS, THE FOLLOWING SYNDROME PRESENTING WITH SIGNS OF INFECTION, BLEEDING, OR ANEMIA. ACCORDINGLY, ROUTINE BLOOD TESTING CANNOT BE RELIABLY USED TO REDUCE THE INCIDENCE OF APLASTIC ANEMIA, BUT, IT WILL, IN SOME CASES, ALLOW THE DETECTION OF THE HEMATOLOGIC CHANGES BEFORE THE SYNDROME DECLARES ITSELF CLINICALLY. FELBAMATE SHOULD BE DISCONTINUED IF ANY EVIDENCE OF BONE MARROW DEPRESSION OCCURS.

**2. HEPATIC FAILURE**  
EVALUATION OF POSTMARKETING EXPERIENCE SUGGESTS THAT ACUTE LIVER FAILURE IS ASSOCIATED WITH THE USE OF FELBAMATE. THE REPORTED INCIDENCE OF ACUTE LIVER FAILURE IN THE U.S. HAS BEEN ABOUT 10 CASES PER 100,000 PATIENT-YEARS PER 75,000 PATIENT YEARS OF USE. THIS RATE IS AN UNDERESTIMATE BECAUSE OF UNDER REPORTING, AND THE TRUE RATE COULD BE CONSIDERABLY GREATER THAN THIS. FOR EXAMPLE, IF THE REPORTING RATE IS 10%, THE TRUE RATE WOULD BE ONE CASE PER 1,250 PATIENT YEARS OF USE.

OF THE CASES REPORTED, ABOUT 67% RESULTED IN DEATH OR LIVER TRANSPLANTATION, USUALLY WITHIN 5 WEEKS OF THE ONSET OF SIGNS AND SYMPTOMS OF LIVER FAILURE. THE EARLIEST ONSET OF SEVERE HEPATIC DYSFUNCTION FOLLOWED SUBSEQUENTLY BY LIVER FAILURE WAS 3 WEEKS AFTER INITIATION OF FELBAMATE. ALTHOUGH SOME REPORTS DESCRIBED DARK URINE AND NONSPECIFIC PROGRAMASTINOSIS (E.G., ANOREXIA, MALAISE, AND GENERALIZED FATIGUE), OTHER REPORTS IT WAS NOT CLEAR IF ANY PRODRUMAL SYMPTOMS PRECEDED THE ONSET OF JAUNDICE.

IT IS NOT KNOWN WHETHER OR NOT THE RISK OF DEVELOPING HEPATIC FAILURE CHANGES WITH DURATION OF EXPOSURE.

IT IS NOT KNOWN WHETHER OR NOT THE DOSAGE OF FELBAMATE AFFECTS THE INCIDENCE OF HEPATIC FAILURE.

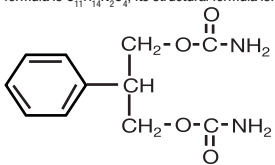
IT IS NOT KNOWN WHETHER CONCOMITANT USE OF OTHER ANTI-EPILEPTIC DRUGS AND/OR OTHER DRUGS AFFECT THE INCIDENCE OF HEPATIC FAILURE.

FELBAMATE SHOULD NOT BE PRESCRIBED FOR ANYONE WITH A HISTORY OF HEPATIC DYSFUNCTION.

TREATMENT WITH FELBAMATE SHOULD BE INITIATED ONLY IN INDIVIDUALS WITHOUT ACTIVE LIVER DISEASE AND WITH NORMAL BASELINE SERUM TRANSAMINASES. IT HAS NOT BEEN PROVED THAT PERIODIC SERUM TRANSAMINASE TESTING WILL PREVENT SERIOUS INJURY BUT IT IS GENERALLY BELIEVED THAT EARLY DETECTION OF UNEXPECTED HEPATIC INJURY ALONG WITH IMMEDIATE WITHDRAWAL OF THE SUSPECT DRUG ENHANCES THE LIKELIHOOD FOR RECOVERY. THERE IS NO INFORMATION AVAILABLE THAT DOCUMENTS HOW RAPIDLY PATIENTS CAN PROGRESS FROM NORMAL LIVER FUNCTION TO LIVER FAILURE, BUT OTHER DRUGS KNOWN TO BE HEPATOTOXIC CAN CAUSE LIVER FAILURE (E.G., CARBAMAZEPINE). MONITORING OF LIVER FAILURE IN 2-4 WEEKS, ACCORDINGLY, MONITORING OF SERUM TRANSAMINASE LEVELS (AST AND ALT) IS RECOMMENDED AT BASELINE AND PERIODICALLY THEREAFTER, WHILE THE MORE FREQUENT THE MONITORING THE GREATER THE CHANCES OF EARLY DETECTION, THE PRECISE SCHEDULE FOR MONITORING JUDGEMENT.

FELBAMATE SHOULD BE DISCONTINUED IF EITHER SERUM AST OR SERUM ALT LEVELS BECOME INCREASED  $\geq 2$  TIMES THE UPPER LIMIT OF NORMAL, OR IF CLINICAL SIGNS AND SYMPTOMS SUGGEST LIVER FAILURE (SEE PRECAUTIONS). PATIENTS WHO DEVELOP ACUTE LIVER INJURY WHILE ON FELBAMATE AND ARE WITHDRAWN FROM THE DRUG FOR ANY REASON SHOULD BE PRESUMED TO BE AT INCREASED RISK FOR LIVER INJURY IF FELBAMATE IS REINTRODUCED. ACCORDINGLY, SUCH PATIENTS SHOULD NOT BE CONSIDERED FOR RE-TREATMENT.

**DESCRIPTION**  
Felbamate, USP is an antiepileptic available as a 600 mg/5 mL suspension for oral administration. Its chemical name is 2-phenyl-1,3-propanediol carbamate. Felbamate, USP is a white to off-white crystalline powder with a characteristic odor. It is very slightly soluble in water, slightly soluble in ethanol, sparingly soluble in methanol, and freely soluble in dimethyl sulfoxide. The molecular weight is 238.24; felbamate, USP's molecular formula is  $C_{15}H_{15}N_2O_2$ . Its structural formula is:



The inactive ingredients for Felbamate Oral Suspension, USP 600 mg/5 mL are noncrystallizing sorbitol solution, microcrystalline cellulose and carboxymethylcellulose sodium, glycerin, methylparaben, propylparaben, polysorbate 80, simethicone emulsion, saccharin sodium monohydrate, bubble gum flavor, natural and artificial flavor, FD&C No. 40, FD&C Yellow No. 5, and purified water.

**CLINICAL PHARMACOLOGY**  
**Mechanism of Action:**

The mechanism by which felbamate exerts its anticonvulsant activity is unknown, but in animal test systems designed to detect anticonvulsant activity, felbamate has properties in common with other anticonvulsants. Felbamate is effective in mice and rats in the maximal electroshock test, the subcutaneous pentylenetetrazol seizure test, and the subcutaneous picrotoxin seizure test. Felbamate also exhibits anticonvulsant activity against seizures induced by intracerebroventricular administration of glutamate in rats and N-methyl-DL-aspartic acid in mice. Protection against seizures suggests that felbamate may reduce seizure spread, an effect possibly predictive of efficacy in generalized tonic-clonic or partial seizures. Protection against pentylenetetrazol-induced seizures suggests that felbamate may increase seizure threshold, an effect considered to be predictive of potential efficacy in absence seizures.

Receptor-binding studies *in vitro* indicate that felbamate has weak inhibitory effects on GABA<sub>A</sub>-receptor binding, benzodiazepine receptor binding, and is devoid of activity at the MK-801 receptor binding site of the NMDA receptor-ionophore complex. However, felbamate does interact as an antagonist at the strychnine-insensitive glycine recognition site of the NMDA receptor-ionophore complex. Felbamate is not effective in protecting chick embryo retina tissue against the neurotoxic effects of the excitatory amino acid agonists NMDA, kainate, or quisqualate *in vitro*.

The monocarbamate, p-hydroxy, and 2-hydroxy metabolites were inactive in the maximal electroshock-induced seizure test in mice. The monocarbamate and p-hydroxy metabolites had only weak (0.2 to 0.6) activity compared with felbamate in the subcutaneous pentylenetetrazol seizure test. These metabolites did not contribute significantly to the anticonvulsant action of felbamate.

**Pharmacokinetics:**

The numbers in the pharmacokinetic section are mean  $\pm$  standard deviation.

Felbamate is well-absorbed after oral administration. Over 90% of the radioactivity after a dose of 1000 mg  $^{14}C$  felbamate was found in the urine. Absolute bioavailability (oral vs. parenteral) has not been measured. The tablet and suspension forms each shown to be bioequivalent to the capsule used in clinical trials, and pharmacokinetic parameters of the tablet and suspension are similar. There was no effect of food on absorption of the tablet; the effect of food on absorption of the suspension has not been evaluated.

Following oral administration, felbamate is the predominant plasma species (about 90% of plasma radioactivity). About 40-50% of absorbed dose appears unchanged in urine, and an unidentified metabolite is present as unidentified metabolites and conjugates. About 15% is present as parahydroxyfelbamate, 2-hydroxyfelbamate, and felbamate monocarbamate, none of which have significant anticonvulsant activity.

Binding of felbamate to human plasma protein was independent of felbamate concentrations between 10 and 310 micrograms/mL. Binding ranged from 22% to 25% in plasma. Binding is independent of the albumin concentration. The albumin concentration is independent of felbamate concentration.

Felbamate is excreted with a terminal half-life of 20-23 hours, which is unaltered after multiple doses. Clearance after a single 1200 mg dose was 26-3 mL/hr/kg, and after multiple daily doses of 3600 mg is 30-8 mL/hr/kg. The apparent volume of distribution was 756 $\pm$ 82 mL/kg after a 1200 mg dose. Felbamate  $C_{max}$  and AUC are proportionate to dose after single and multiple doses over a range of 100-3600 mg single doses and 1200-3600 mg daily doses.  $C_{max}$  through blood levels are also dose proportional. Multiple daily doses of 1200, 2400, and 3600 mg gave  $C_{max}$  values of 30 $\pm$ 5, 55 $\pm$ 8, and 83 $\pm$ 21 micrograms/mL (N=10 patients). Linear and dose proportional pharmacokinetics were also observed at doses above 3600 mg/day up to the maximum dose studied of 6000 mg/day. Felbamate gave dose proportional steady-state peak plasma concentrations in children at doses of 4-12 over a range of 1.5, 3, and 4.5 mg/kg/day. If no dose occurred during baseline, or (4) significant or fulfilling an escape criterion. Criteria for escape relative to baseline were: (1) twofold increase in monthly seizure frequency, (2) twofold increase in highest 24-hour seizure frequency, (3) single generalized tonic-clonic seizure if none occurred during baseline, or (4) study days or prolongation of GTCS. The primary efficacy variable was the number of patients in each treatment group who met escape criteria.

In the multicenter trial, the percentage of patients who met escape criteria was 40% (18/45) in the felbamate group and 78% (39/50) in the low-dose valproate group. In the single-center trial, the percentage of patients who met escape criteria was 14% (3/21) in the felbamate group and 80% (19/21) in the low-dose valproate group. In both trials, the difference in the percentage of patients meeting escape criteria was statistically significant ( $P<0.01$ ) in favor of felbamate. These two studies by design were intended to demonstrate the effectiveness of felbamate monotherapy. The studies were not designed or intended to demonstrate comparative efficacy of the two drugs. For example, valproate was not used at the maximally effective dose.

**Renal Impairment:**

Felbamate's single dose monotherapy pharmacokinetic parameters were evaluated in 12 otherwise healthy individuals with renal impairment. There was a 40-50% reduction in total body clearance and 9-15 hours prolongation of half-life in renally impaired subjects compared to that in subjects with normal renal function. Reduced felbamate clearance and a longer half-life were associated with diminishing renal function.

**Pharmacodynamics:**  
**Typical Physiologic Responses:**

1. **Cardiovascular:**

In adults, there is no effect of felbamate on blood pressure. Small but statistically significant mean increases in heart rate were seen during adjunctive therapy and monotherapy, however, these mean increases of up to 5 bpm were not clinically significant. In children, no clinically relevant changes in blood pressure or heart rate were seen during adjunctive therapy or monotherapy with felbamate.

2. **Other Physiologic Effects:**

The only other change in vital signs was a mean decrease of approximately one (1) respiration per minute in respiratory rate during adjunctive therapy in children. In adults, statistically significant mean reductions in body weight were observed during felbamate monotherapy and adjunctive therapy. In children, there were mean decreases in body weight during adjunctive therapy and monotherapy; however, these mean changes were not statistically significant. These mean reductions in adults and children were approximately 5% of the mean weights at baseline.

**CLINICAL STUDIES**

The results of controlled clinical trials established the efficacy of felbamate as monotherapy and adjunctive therapy in adults with partial-onset seizures with or without secondary generalization and in partial and generalized seizures associated with Lennox-Gastaut syndrome in children.

**Felbamate Monotherapy Trials in Adults**

Felbamate 3600 mg/day given four times-a-day and low-dose valproate (15 mg/kg/day) were compared as monotherapy during a 112-day treatment period in a multicenter and a single-center double-blind efficacy trial. Both trials were conducted according to an identical study design. During the 56-day baseline period, all patients had at least four partial-onset seizures per 28 days and were receiving one antiepileptic drug at a therapeutic level. In the multicenter trial, baseline seizure frequencies were 12.4 per 28 days in the felbamate group and 21.3 per 28 days in the low-dose valproate group. In the single-center trial, baseline seizure frequencies were 16.1 per 28 days in the felbamate group and 15.9 per 28 days in the low-dose valproate group. Patients were converted to monotherapy with felbamate or low-dose valproate acid during the first 28 days of the 112-day treatment period. Study endpoints were completion of 112 study days or fulfilling an escape criterion. Criteria for escape relative to baseline were: (1) twofold increase in monthly seizure frequency, (2) twofold increase in highest 24-hour seizure frequency, (3) single generalized tonic-clonic seizure if none occurred during baseline, or (4) significant or prolongation of GTCS. The primary efficacy variable was the number of patients in each treatment group who met escape criteria. In the multicenter trial, the percentage of patients who met escape criteria was 40% (18/45) in the felbamate group and 78% (39/50) in the low-dose valproate group. In the single-center trial, the percentage of patients who met escape criteria was 14% (3/21) in the felbamate group and 80% (19/21) in the low-dose valproate group. In both trials, the difference in the percentage of patients meeting escape criteria was statistically significant ( $P<0.01$ ) in favor of felbamate. These two studies by design were intended to demonstrate the effectiveness of felbamate monotherapy. The studies were not designed or intended to demonstrate comparative efficacy of the two drugs. For example, valproate was not used at the maximally effective dose.

**Felbamate Adjunctive Therapy Trials in Adults**

A double-blind, placebo-controlled crossover trial consisted of two 10-week outpatient treatment periods. Patients with refractory partial-onset seizures who were receiving phenytoin and carbamazepine at therapeutic levels were administered felbamate as add-on therapy at a starting dosage of 1400 mg/day in three divided doses, which was increased to 2600 mg/day in three divided doses. Among the 56 patients who completed the study, the baseline seizure frequency was 20 per month. Patients treated with felbamate had fewer seizures than patients treated with placebo for each treatment sequence. There was a 23% ( $P=0.18$ ) difference in percentage seizure frequency reduction in favor of felbamate.

Felbamate 3600 mg/day given four times-a-day and placebo were compared in a 28-day double-blind add-on trial in patients who had their standard antiepileptic drugs reduced while undergoing evaluations for surgery of intractable epilepsy. All patients had confirmed partial-onset seizures with or without generalization, seizure frequency during surgical evaluation not exceeding an average of four partial seizures per day or more than one generalized seizure per day, and a minimum average of one partial or generalized tonic-clonic seizure per day for the last 3 days of the surgical evaluation. The primary efficacy variable was time to fourth seizure after randomization to treatment with felbamate or placebo. Thirteen (46%) of 28 patients in the felbamate group versus 29 (88%) of 33 patients in the placebo group experienced a fourth seizure. The median times to fourth seizure were greater than 28 days in 19 (64%) of patients in the placebo group and 5 days in the felbamate group. The difference between felbamate and placebo in time to fourth seizure was statistically significant ( $P=0.002$ ) in favor of felbamate.

**Felbamate Adjunctive Therapy Trial in Children with Lennox-Gastaut Syndrome**

In a 70-day double-blind, placebo-controlled add-on trial in the Lennox-Gastaut syndrome, felbamate 45 mg/kg/day given four times-a-day was superior to placebo in controlling the multiple seizure types associated with this condition. Patients had at least 90 atonic and/or atypical absence seizures per month while receiving therapeutic doses of one or two other antiepileptic drugs. Patients had a past history of

using an average of eight antiepileptic drugs. The most commonly used antiepileptic drug during the baseline period was valproic acid. The frequency of all types of seizures during the baseline period was 18.7 per month in the felbamate group and 7.6 per month in the placebo group. Statistically significant differences in the effect on seizure frequency favored felbamate over placebo for total seizures (26% reduction vs. 5% increase,  $P<0.01$ ), atonic seizures (44% reduction vs. 7% reduction,  $P=0.02$ ), and generalized tonic-clonic seizures (46% reduction vs. 12% increase,  $P=0.17$ ). Parent/guardian global evaluations based on impressions of quality of life with respect to alertness, verbal responsiveness, general well-being, and seizure control significantly ( $P<0.01$ ) favored felbamate over placebo.

When efficacy was analyzed by gender in four well-controlled trials of felbamate as adjunctive and monotherapy for partial-onset seizures and Lennox-Gastaut syndrome, a similar response was seen in 122 males and 142 females.

**INDICATIONS AND USAGE**

Felbamate oral suspension is not indicated as a first line antiepileptic therapy (see **Warnings**). Felbamate oral suspension is recommended for use only in those patients who respond inadequately to alternative treatments and whose epilepsy is so severe that a substantial risk of status epilepticus and/or liver failure is deemed acceptable in light of the benefits conferred by its use.

If these criteria are met and the patient has been fully advised of the risk, and has provided written acknowledgement, felbamate oral suspension can be considered for either monotherapy or adjunctive therapy in the treatment of partial seizures, with and without generalization, in adults with epilepsy and as adjunctive therapy in the treatment of partial and generalized seizures associated with Lennox-Gastaut syndrome in children.

**CONTRAINDICATIONS**

Felbamate oral suspension is contraindicated in patients with known hypersensitivity to felbamate, its ingredients, or known sensitivity to other carbamates. It should not be used in patients with a history of any blood dyscrasia or hepatic dysfunction.

**WARNINGS**

See Boxed Warning regarding aplastic anemia and hepatic failure.

Antiepileptic drugs should not be suddenly discontinued because of the possibility of increasing seizure frequency.

**Suicidal Behavior and Ideation**  
Antiepileptic drugs (AEDs) including felbamate, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior.

Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that suicidal thoughts or behavior occurred in approximately 1.6% of patients treated with AEDs compared to 1.4% of patients treated with placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27 AED-treated patients was 0.43% compared to 0.24% among 15 placebo-treated patients, representing an increase of approximately one case of suicidal thought or behavior for every 530 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on suicide.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior with AEDs may be extended beyond 24 weeks and should be closely monitored.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk of AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5-100 years) in the clinical trials analyzed.

Table 1 shows absolute and relative risk by indication for all evaluated AEDs.

Table 1 Risk by Indication for Antiepileptic Drugs in the Pooled Analysis				
Indication	Placebo Patients with Events Per 1000 Patients	Drug Patients with Events Per 1000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events Per 1000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications.

Anyone considering prescribing felbamate or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Before prescribing, patients should be advised of the risks of suicidal thoughts and behavior and should be alerted to the possibility of suicidal thoughts or behavior. Patients should be advised of the risks of suicidal thoughts or behavior and should be alerted to the possibility of suicidal thoughts or behavior. Patients should be advised of the risks of suicidal thoughts or behavior and should be alerted to the possibility of suicidal thoughts or behavior. Patients should be advised of the risks of suicidal thoughts or behavior and should be alerted to the possibility of suicidal thoughts or behavior.

**PRECAUTIONS**  
**Information for Patients:** Patients should be informed that the use of felbamate is associated with aplastic anemia and hepatic failure, potentially fatal conditions acutely or over a long term.

The physician should obtain written acknowledgement prior to initiation of felbamate therapy (see **PATIENT/PHYSICIAN ACKNOWLEDGMENT FORM** section).

Patients should be instructed to read the Medication Guide supplied as required by law when felbamate is dispensed. The complete text of the Medication Guide is reprinted at the end of this document.

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**Warnings:** Patients should be instructed to read the Medication



Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine.

#### How should I take felbamate oral suspension?

- Take felbamate oral suspension exactly as your healthcare provider tells you. Your healthcare provider will tell you how much felbamate oral suspension to take and when to take it.

- Your healthcare provider may change your dose of felbamate oral suspension. Do not change your dose of felbamate oral suspension without talking to your healthcare provider.

- Because of the risk of serious blood and liver problems, your healthcare provider may do blood tests before you start and while you take felbamate oral suspension.

- If you take too much felbamate oral suspension, call your healthcare provider or local Poison Control Center right away.

- Do not stop felbamate oral suspension without first talking to your healthcare provider.

#### What should I avoid while taking felbamate oral suspension?

- Felbamate oral suspension can cause drowsiness and dizziness. Do not drink alcohol or take other medicines that make you sleepy or dizzy while taking felbamate oral suspension, until you talk with your doctor. Taking felbamate oral suspension with alcohol or drugs that cause sleepiness or dizziness may make your sleepiness or dizziness worse.

#### What are the possible side effects of felbamate oral suspension?

See “What is the most important information I should know about felbamate oral suspension?”

Felbamate oral suspension may cause serious side effects including:

The most common side effects of felbamate oral suspension include:

- weight loss
- vomiting
- trouble sleeping
- nausea
- dizziness
- sleepiness
- headache
- double-vision
- changes in the way that food tastes

These are not all the possible side effects of felbamate oral suspension. For more information, ask your healthcare provider or pharmacist.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088 or contact Novitium Pharma LLC at 1-855-204-1431.

#### How should I store felbamate oral suspension?

- Store felbamate oral suspension at room temperature between 68°F to 77°F (20°C to 25°C).

Keep felbamate oral suspension and all medicines out of the reach of children.

#### General information about felbamate oral suspension.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use felbamate oral suspension for a condition for which it was not prescribed. Do not give felbamate oral suspension to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about felbamate. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about felbamate that is written for health professionals.

#### What are the ingredients in felbamate oral suspension?

**Active Ingredient:** felbamate, USP  
**Inactive Ingredients:** noncrystallizing sorbitol solution, microcrystalline cellulose and carboxymethylcellulose sodium, glycerin, methylparaben, propylparaben, polyorbate 80, simethicone emulsion, saccharin sodium monohydrate, bubblegum flavor (contains arabic gum, and natural and artificial flavor), FD&C Red No. 40, FD&C Yellow No. 6, and purified water.

For more information, call Novitium Pharma LLC at 1-855-204-1431.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

#### Rx Only

Manufactured by:  
**Novitium Pharma LLC**  
70 Lake Drive, East Windsor  
New Jersey 08520

Issued: 05/2022  
LB4039-03

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** Carcinogenicity studies were conducted in mice and rats. Mice received felbamate as a feed admixture for 92 weeks at doses of 300, 600, and 1200 mg/kg and rats were also dosed by feed admixture for 04 weeks at doses of 30, 100, and 300 (males) or 10, 30, and 100 (females) mg/kg. The maximum doses in these studies produced steady-state plasma concentrations that were equal to or less than the steady-state plasma concentrations in epileptic patients receiving 3600 mg/day. There was a statistically significant increase in hepatic cell adenomas in high-dose male and female mice and a high-dose female rats. Hepatic hyperplasia was significantly increased in a dose-related manner in mice, primarily males, but also in females. Hepatic hyperplasia was not found in female rats. The relationship between the occurrence of benign hepatocellular adenomas and the finding of liver hyperplasia resulting from liver enzyme induction has not been examined. There was a statistically significant increase in benign interstitial cell tumors of the testes in high-dose male rats receiving felbamate. The relevance of these findings to humans is unknown.

As a result of the synthesis process, felbamate could contain small amounts of two known animal carcinogens, the genotoxic compound ethyl carbamate (urethane) and the mutagenic compound methyl carbamate. It is theoretically possible that a 50 kg patient receiving 3600 mg of felbamate could be exposed to up to 0.72 micrograms of urethane and 1800 micrograms of methyl carbamate. These daily doses are approximately 1/35,000 (urethane) and 1/5,500 (methyl carbamate) on a mg/kg basis, and 1/10,000 (urethane) and 1/1,600 (methyl carbamate) on a mg/m<sup>2</sup> basis, of the dose levels shown to be carcinogenic in rodents. Any presence of these two compounds in felbamate used in the lifetime carcinogenicity studies was inadequate to cause tumors.

Microbial and mammalian cell assays revealed no evidence of mutagenesis in the Ames Salmonella/microsome plate test, CHO/HGPRT mammalian cell forward gene mutation assay, sister chromatid exchange assay in CHO cells, and bone marrow cytogenetics assay. Reproduction and fertility studies in rats showed no effects on male or female fertility at oral doses of up to 13.9 times the human total daily dose of 3600 mg on a mg/kg basis, or up to 3 times the human total daily dose on a mg/m<sup>2</sup> basis.

**Pregnancy: Pregnancy Category C.** The incidence of malformations was not increased compared to control in offspring of rats or rabbits given doses up to 13.9 times (rat) and 4.2 times (rabbit) the human daily dose on a mg/kg basis, or 3 times (rat) and less than 2 times (rabbit) the human daily dose on a mg/m<sup>2</sup> basis. However, in rats, there was a decrease in pup weight and an increase in pup deaths during lactation. The cause for these deaths is not known. The no effect dose for rat pup mortality was 6.9 times the human dose on a mg/kg basis or 1.5 times the human dose on a mg/m<sup>2</sup> basis.

Placental transfer of felbamate occurs in rat pups. There are, however, no studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

To provide information regarding the effects of in utero exposure to felbamate, physicians are advised to recommend that pregnant patients taking felbamate enroll in the NAEED Pregnancy Registry. This can be done by calling the toll free number 1-888-233-2334, and must be done by patients themselves. Information on the registry can also be found at the website <http://www.aadp.org/pregnancyregistry/>.

**Labor and Delivery:** The effect of felbamate on labor and delivery in humans is unknown.

**Nursing Mothers:** Felbamate has been detected in human milk. The effect on the nursing infant is unknown (see **Pregnancy** section).

**Pediatric Use:** The safety and effectiveness of felbamate in children other than those with Lennox-Gastaut syndrome has not been established.

**Geriatric Use:** No systematic studies in geriatric patients have been conducted. Clinical studies of felbamate did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dosage selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

**ADVERSE REACTIONS**  
To report SUSPECTED ADVERSE REACTIONS, contact Novitium Pharma LLC at 1-855-204-1431 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

The most common adverse reactions seen in association with felbamate in adults during monotherapy are anorexia, vomiting, insomnia, nausea, and headache. The most common adverse reactions seen in association with felbamate in adults during adjunctive therapy are anorexia, vomiting, insomnia, nausea, dizziness, somnolence, and headache.

The most common adverse reactions seen in association with felbamate in children during adjunctive therapy are anorexia, vomiting, insomnia, headache, and somnolence. There are, however, no studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

The dropout rate because of adverse experiences or intercurrent illnesses among pediatric felbamate patients was six percent (22/357). In adults, the body systems associated with causing these withdrawals in order of frequency were: digestive (4.3%), psychological (2.2%), whole body (1.7%), neurological (1.5%), and dermatological (1.5%). In children, the body systems associated with causing these withdrawals in order of frequency were: digestive (1.7%), neurological (1.4%), dermatological (1.4%), psychological (1.1%), and whole body (1.0%). In adults, specific events with an incidence of 1% or greater associated with causing these withdrawals, in order of frequency were: anorexia (1.6%), nausea (1.4%), rash (1.2%), and weight decrease (1.1%). In children, specific events with an incidence of 1% or greater associated with causing these withdrawals, in order of frequency was rash (1.1%).

**Incidence in Clinical Trials:**

The prescriber should be aware that the figures cited in the following table cannot be used to predict the incidence of side effects in the course of usual medical practice where patient characteristics and other factors differ from those which prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different investigators, treatments, and uses including the use of felbamate as adjunctive therapy where the incidence of adverse events may be higher due to drug interactions. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the side effect incidence rate in the population studied.

**Adults**

**Incidence in Controlled Clinical Trials—Monotherapy Studies in Adults:** The table that follows enumerates adverse events that occurred at an incidence of 2% or more among 58 adult patients who received felbamate monotherapy at dosages of 3600 mg/day in double-blind controlled trials. Table 3 presents reported adverse events that were classified using standard WHO-based dictionary terminology.

Body System Event	Felbamate* (N=58)	Low Dose Valproate** (N=50)
Body as a Whole	%	%
Fatigue	6.9	4.0
Weight Decrease	3.4	0
Face Edema	3.4	0
Central Nervous System		
Isoplasia	8.6	4.0
Headache	6.9	18.0
Anxiety	5.2	2.0
Dermatological		
Acne	3.4	0
Rash	3.4	0
Digestive		
Dyspepsia	8.6	2.0
Vomiting	8.6	2.0
Constipation	6.9	2.0
Diarrhea	5.2	0
SGPT Increased	5.2	2.0
Metabolic/Nutritional		
Hypophosphatemia	3.4	0
Respiratory		
Upper Respiratory Tract Infection	8.6	4.0
Rhinitis	6.9	0
Special Senses		
Diplopia	3.4	4.0
Otitis Media	3.4	0
Urogenital		
Intramenstrual Bleeding	3.4	0
Urinary Tract Infection	3.4	2.0
*3600 mg/day;** 15 mg/kg/day		

**Incidence in Controlled Add-On Clinical Studies in Adults:**

Table 4 enumerates adverse events that occurred at an incidence of 2% or more among 114 adult patients who received felbamate adjunctive therapy in add-on controlled trials at dosages up to 3600 mg/day. Reported adverse events were classified using standard WHO-based dictionary terminology. Many adverse experiences that occurred during adjunctive therapy may be a result of drug interactions. Adverse experiences during adjunctive therapy typically resolved with conversion to monotherapy, or with adjustment of the dosage of other antiepileptic drugs.

Body System/Event	Felbamate (N=114)	Placebo (N=43)
Body as a Whole	%	%
Fatigue	16.8	7.0
Fever	2.6	4.7
Chest Pain	2.6	0
Central Nervous System		
Headache	36.8	9.3
Somnolence	19.3	7.0
Dizziness	18.4	14.0
Insomnia	17.5	7.0
Nervousness	7.0	2.3
Tremor	6.1	2.3
Anxiety	5.3	4.7
Gait Abnormal	5.3	0
Depression	5.3	0
Parosmia	3.5	2.3
Ataxia	3.5	0
Mouth Dry	3.5	0
Slurper	2.6	0
Dermatological		
Rash	3.5	4.7
Digestive		
Nausea	34.2	2.3
Anorexia	19.3	2.3
Vomiting	16.7	4.7
Dyspepsia	12.3	7.0
Constipation	11.4	2.3
Diarrhea	5.3	2.3
Abdominal Pain	5.3	0
SGPT Increased	5.3	0
Musculoskeletal		
Myalgia	2.6	0
Respiratory		
Upper Respiratory Tract Infection	5.3	7.0
Sinusitis	2.6	0
Pharyngitis	3.5	0
Special Senses		
Diplopia	6.1	0
Taste Perversion	6.1	0
Vision Abnormal	5.3	2.3

**Children**

**Incidence in a Controlled Add-On Trial in Children with Lennox-Gastaut Syndrome:** Table 5 enumerates adverse events that occurred more than once among 31 pediatric patients who received felbamate up to 45 mg/kg/day or a maximum of 3600 mg/day. Reported adverse events were classified using standard WHO-based dictionary terminology.

Body System/Event	Felbamate (N=31)	Placebo (N=27)
Body as a Whole	%	%
Fever	22.6	11.1
Fatigue	9.7	3.7
Weight Decrease	6.5	0
Pain	6.5	0
Central Nervous System		
Somnolence	48.4	11.1
Insomnia	16.1	14.8
Nervousness	16.1	18.5
Gait Abnormal	9.7	0
Headache	6.5	18.5
Thinking Abnormal	6.5	3.7
Ataxia	6.5	3.7
Urinary Incontinence	6.5	7.4
Emotional Lability	6.5	0
Miscellaneous	6.5	0
Dermatological		
Rash	9.7	7.4
Digestive		
Anorexia	54.8	14.8
Vomiting	39.7	14.8
Constipation	12.9	0
Hiccup	9.7	3.7
Nausea	6.5	0
Dyspepsia	6.5	3.7
Hematologic		
Leukopenia	12.9	7.4
	6.5	0
Respiratory		
Upper Respiratory Tract Infection	45.2	25.9
Pharyngitis	9.7	3.7
Coughing	6.5	0
Special Senses		
Otitis Media	9.7	0

#### Other Events Observed in Association with the Administration of Felbamate:

In the paragraphs that follow, the adverse clinical events, other than those in the preceding tables, that occurred in a total of 977 adults and 357 children exposed to felbamate and that are reasonably associated with its use are presented. They are listed in order of decreasing frequency. Because the reports cite events observed in open-label and uncontrolled studies, the role of felbamate in causing them cannot be reliably determined.

Events are classified within body system categories and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are defined as those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in 1/100-1/1000 patients; and rare events are those occurring in fewer than 1/1000 patients.

Event frequencies are calculated as the number of patients reporting an event divided by the total number of patients (N=1334) exposed to felbamate.

**Body as a Whole:** Frequent: Weight increase, asthenia, malaise, influenza-like symptoms; Rare: anaphylactoid reaction, chest pain substernal.

**Cardiovascular:** Frequent: Palpitation, tachycardia; Rare: supraventricular tachycardia.

**Central Nervous System:** Frequent: Agitation, psychological disturbance, aggressive reaction; Infrequent: hallucination, euphoria, suicide attempt, migraine.

**Digestive:** Frequent: SGOT increased; Infrequent: esophagitis, appetite increased; Rare: GGT elevated.

**Hematologic:** Infrequent: Lymphopenia, leukopenia, leukocytosis, thrombocytopenia, granulocytopenia; Rare: antinuclear factor test positive, qualitative platelet disorder, agranulocytosis.

**Muscular/Nutritional:** Infrequent: Hypokalemia, hyponatremia, LDH increased, alkaline phosphatase increased, hypophosphatemia; Rare: hypophosphatase increased.

**Musculoskeletal:** Infrequent: Dystonia.

**Dermatological:** Frequent: Pruritus; Infrequent: urticaria, bullous eruption; Rare: buccal mucous membrane swelling, Stevens-Johnson Syndrome.

**Special Senses:** Rare: Photosensitivity allergic reaction.

**Postmarketing Adverse Event Reports:** Voluntary reports of adverse events in patients taking felbamate (usually in conjunction with other drugs) have been received since market introduction and may have no causal relationship with the drug(s). These include the following by body system:

**Body as a Whole:** neoplasm, sepsis, L.E. syndrome, SIDS, sudden death, edema, hypothermia, rigors, hyperpyrexia.

**Cardiovascular:** atrial fibrillation, atrial arrhythmia, cardiac arrest, torsade de pointes, cardiac failure, hypotension, hypertension, flushing, thrombocytosis, ischemic necrosis, gangrene, peripheral ischemia, bradycardia, Henoch-Schönlein purpura (vasculitis).

**Central & Peripheral Nervous System:** delusion, paralysis, mononeuritis, cerebrovascular disorder, cerebral edema, coma, manic reaction, encephalopathy, paranoid reaction, myasthenia, choreoathetosis, extrapyramidal disorder, confusion, psychosis, status epilepticus, dyskinesia, dysarthria, respiratory depression, apathy, concentration impaired.

**Dermatological:** abnormal body odor, sweating, lichen planus, livedo reticularis, alopecia, toxic epidermal necrolysis.

**Digestive:** Refer to **WARNINGS** hepatitis, hepatic failure, G.I. hemorrhage, hyperammonemia, pancreatitis, hematemesis, gastritis, rectal hemorrhage, fulminant, colitis, acute pancreatitis, acquired megacolon, ileus, intestinal obstruction, enteric ulceration, stomatitis, glossitis, dysphagia, jaundice, gastric ulcer, gastric dilatation, gastroesophageal reflux.

**Genitourinary:** Refer to **WARNINGS** renal failure, G.I. hemorrhage, hyperammonemia, pancreatitis, hematemesis, gastritis, rectal hemorrhage, fulminant, colitis, acute pancreatitis, acquired megacolon, ileus, intestinal obstruction, enteric ulceration, stomatitis, glossitis, dysphagia, jaundice, gastric ulcer, gastric dilatation, gastroesophageal reflux.

**Fetal Disorders:** fetal death, microcephaly, genital malformation, anencephaly, encephalocele.

**Hematologic:** Refer to **WARNINGS** increased and decreased prothrombin time, anemia, hypochromic anemia, aplastic anemia, pancytopenia, hemolytic uremic syndrome, increased mean corpuscular volume (mcv) with and without anemia, coagulation disorder, embolism-limb, disseminated intravascular coagulation, eosinophilia, hemolytic anemia, leukemia, including myelogenous leukemia, and lymphoma, including T-cell and B-cell lymphoproliferative disorders.

**Metabolic/Nutritional:** hypernatremia, hypoglycemia, SIADH, hypoglycemia, dehydration, hyperglycemia, hypocalcemia.

**Musculoskeletal:** arthralgia, muscle weakness, involuntary muscle atrophy, myoglobinuria.

**Respiratory:** dyspnea, pneumonia, pneumonitis, hypoxia, epistaxis, pleural effusion, respiratory insufficiency, pulmonary hemorrhage, asthma.

**Special Senses:** hemianopsia, decreased hearing, conjunctivitis.

**Urogenital:** menstrual disorder, acute renal failure, hepatorenal syndrome, hematuria, urinary retention, nephrosis, vaginal hemorrhage, abnormal renal function, dysuria, pleural effusion, respiratory insufficiency, pulmonary hemorrhage, asthma.

**DRUG ABUSE AND DEPENDENCE**  
Abuse: Abuse potential was not evaluated in human studies.

**Dependence:** Rats administered felbamate orally at doses 8.3 times the recommended human dose 6 days each week for 5 consecutive weeks demonstrated no signs of physical dependence as measured by weight loss following drug withdrawal on day 7 of each week.

**OVERDOSSAGE**  
Four subjects inadvertently received felbamate as adjunctive therapy in dosages ranging from 5400 to 7200 mg/day for durations between 6 and 51 days. One subject who received 5400 mg/day as monotherapy for 1 week reported no adverse experiences. Another subject attempted suicide by ingesting 12,000 mg of felbamate in a 12-hour period. The only adverse experiences reported were mild gastric distress and a resting heart rate of 100 bpm, but serious adverse reactions have been reported. General supportive measures should be employed if overdosage occurs. It is not known if felbamate is dialyzable.

**DOSSAGE AND ADMINISTRATION**  
Felbamate oral suspension has been studied as monotherapy and adjunctive therapy in adults and as adjunctive therapy in children with seizures associated with Lennox-Gastaut syndrome. As felbamate oral suspension is added to or substituted for existing AEDs, it is strongly recommended to reduce the dosage of those AEDs in the range of 20-33% to minimize side effects (see **Drug Interactions** subsection).

**Dosage Adjustment in the Renally Impaired:** Felbamate should be used with caution in patients with renal dysfunction. In the renally impaired, starting and maintenance doses should be reduced by one-half (see **CLINICAL PHARMACOLOGY/Pharmacokinetics** and **PRECAUTIONS**). Adjunctive therapy with medications which affect felbamate plasma concentrations, especially AEDs, may warrant further reductions in felbamate daily doses in patients with renal dysfunction.

**Adults (14 years of age and over)**  
The majority of patients received 3600 mg/day in clinical trials evaluating its use as both monotherapy and adjunctive therapy.

**Monotherapy:** (Initial therapy) felbamate oral suspension has not been systematically evaluated as initial monotherapy. Initiate felbamate oral suspension at 1200 mg/day in divided doses three or four times daily. The prescriber is advised to titrate previously untreated patients under close clinical supervision, increasing the dosage in 600-mg increments every 2 weeks to 2400 mg/day based on clinical response and thereafter to 3600 mg/day if clinically indicated.

**Conversion to Monotherapy:** Initiate felbamate oral suspension at 1200 mg/day in divided doses three or four times daily. Reduce the dosage of concomitant AEDs by one-third at initiation of felbamate oral suspension therapy. At week 2, increase the felbamate oral suspension dosage to 2400 mg/day while reducing the dosage of other AEDs up to an additional one-third of their original dosage. At week 3, increase the felbamate dosage up to 3600 mg/day and continue to reduce the dosage of other AEDs as clinically indicated.

**Adjunctive Therapy:** Felbamate should be added at 1200 mg/day in divided doses three or four times daily while reducing present AEDs by 20% in order to control plasma concentrations of concurrent phenytoin, valproic acid, phenobarbital, and carbamazepine and its metabolites. Further reductions of the concomitant AEDs dosage may be necessary to minimize side effects due to drug interactions. Increase the dosage of felbamate by 15 mg/kg/day increments at weekly intervals to 45 mg/kg/day. Most side effects seen during felbamate adjunctive therapy resolve as the dosage of concomitant AEDs is decreased.

**HOW SUPPLIED**  
Felbamate Oral Suspension, USP 600 mg/5 mL, is a pink colored homogeneous suspension free from visible agglomeration with bubblegum odor available in 8 oz bottles (NDC 70954-051-10) and 16 oz bottles (NDC 70954-051-20).

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

Dispense in a tight container.

To report SUSPECTED ADVERSE REACTIONS, contact Novitium Pharma LLC at 1-855-204-1431 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

Manufactured by:  
**Novitium Pharma LLC**  
70 Lake Drive, East Windsor  
New Jersey 08520

Issued: 05/2022  
LB4039-03

Physician \_\_\_\_\_ Date \_\_\_\_\_

**Patient, Parent, or Guardian** \_\_\_\_\_

**Address** \_\_\_\_\_

**Telephone** \_\_\_\_\_

**PHYSICIAN STATEMENT:**  
I have fully explained to the patient, \_\_\_\_\_, the nature and purpose of the treatment with felbamate and the potential risks associated with that treatment. I have asked the patient if he/she has any questions regarding this treatment or the risks and have answered those questions to the best of my ability. I also acknowledge that I have read and understand the prescribing information.

Physician \_\_\_\_\_ Date \_\_\_\_\_

**NOTE TO PHYSICIAN:**  
It is strongly recommended that you retain a signed copy of the Patient/Physician Acknowledgment Form with the patient's medical records.

**SUPPLY OF PATIENT/PHYSICIAN ACKNOWLEDGMENT FORMS:**  
A supply of "Patient/Physician Acknowledgement" Forms as printed above is available, free of charge, from Novitium Pharma LLC's website, [www.novitiumpharma.com/products](http://www.novitiumpharma.com/products), or may be obtained by calling 1-855-204-1431. Permission to use the above Patient/Physician Acknowledgment Form by photocopy reproduction is also hereby granted by Novitium Pharma LLC.

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