

## BENZONATE CAPSULES

100 mg Capsules

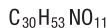
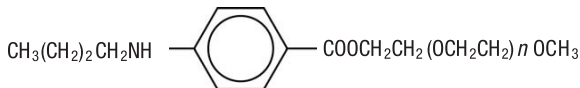
150 mg Capsules

200 mg Capsules

(benzonate, USP)

### DESCRIPTION

Benzonate, a non-narcotic oral antitussive agent, is 2, 5, 8, 11, 14, 17, 20, 23, 26-nonaooxaoctacosan-28-yl p-(butylamino) benzoate; with a molecular weight of 603.7.



Each benzonate capsule USP contains:  
Benzonate, USP 100 mg

Each benzonate capsule USP contains:  
Benzonate, USP 150 mg

Each benzonate capsule USP contains:  
Benzonate, USP 200 mg

Benzonate capsules USP also contain: bloom gelatin, glycerin, purified water, medium chain triglycerides, lecithin, isopropyl alcohol, nitrogen.

100 mg and 200 mg capsules also contain D&C Yellow No. 10.

150 mg capsules also contain FD&C Yellow No. 6 powder.

Each capsule also contains black iron oxide, propylene glycol, hypromellose as imprinting ink.

### CLINICAL PHARMACOLOGY

Benzonate capsules acts peripherally by anesthetizing the stretch receptors located in the respiratory passages, lungs, and pleura by dampening their activity and thereby reducing the cough reflex at its source. It begins to act within 15 to 20 minutes and its effect lasts for 3 to 8 hours. Benzonate capsules has no inhibitory effect on the respiratory center in recommended dosage.

### INDICATIONS AND USAGE

Benzonate capsules is indicated for the symptomatic relief of cough.

### CONTRAINDICATIONS

Hypersensitivity to benzonate or related compounds.

### WARNINGS

#### Hypersensitivity

Severe hypersensitivity reactions (including bronchospasm, laryngospasm and cardiovascular collapse) have been reported which are possibly related to local anesthesia from sucking or chewing the capsule instead of swallowing it. Severe reactions have required intervention with vasopressor agents and supportive measures.

#### Psychiatric Effects

Isolated instances of bizarre behavior, including mental confusion and visual hallucinations, have also been reported in patients taking benzonate capsules in combination with other prescribed drugs.

#### Accidental Ingestion and Death in Children

Keep benzonate capsules out of reach of children. Accidental ingestion of benzonate capsules resulting in death has been reported in children below age 10. Signs and symptoms of overdose have been reported within 15-20 minutes and death has been reported within one hour of ingestion. If accidental ingestion occurs, seek medical attention immediately (see OVERDOSAGE).

### PRECAUTIONS

Benzonate is chemically related to anesthetic agents of the para-amino-benzoic acid class (e.g. procaine; tetracaine) and has been associated with adverse CNS effects possibly related to a prior sensitivity to related agents or interaction with concomitant medication.

#### Information for patients

Swallow benzonate capsules whole. Do not break, chew, dissolve, cut, or crush benzonate capsules. Release of benzonate from the capsule in the mouth can produce a temporary local anesthesia of the oral mucosa and choking could occur. If numbness or tingling of the tongue, mouth, throat, or face occurs, refrain from oral ingestion of food or liquids until the numbness has resolved. If the symptoms worsen or persist, seek medical attention.

Keep benzonate capsules out of reach of children. Accidental ingestion resulting in death has been reported in children. Signs and symptoms of overdose have been reported within 15-20 minutes and death has been reported within one hour of ingestion. Signs and symptoms may include restlessness, tremors, convulsions, coma and cardiac arrest. If accidental ingestion occurs, seek medical attention immediately.

Overdosage resulting in death may occur in adults.

Do not exceed a single dose of 200 mg and a total daily dosage of 600 mg. If you miss a dose of benzonate capsules, skip that dose and take the next dose at the next scheduled time. Do not take 2 doses of benzonate capsules at one time.

#### Usage in Pregnancy

Pregnancy Category C

Animal reproduction studies have not been conducted with benzonate capsules. It is also not known whether benzonate capsules can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Benzonate capsules should be given to a pregnant woman only if clearly needed.

#### Nursing mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk caution should be exercised when benzonate capsules is administered to a nursing woman.

#### Carcinogenesis, mutagenesis, impairment of fertility

Carcinogenicity, mutagenicity, and reproduction studies have not been conducted with benzonate capsules.

### Pediatric Use

Safety and effectiveness in children below the age of 10 have not been established. Accidental ingestion resulting in death has been reported in children below age 10. Keep out of reach of children.

### ADVERSE REACTIONS

Potential Adverse Reactions to benzonate capsules may include:

**Hypersensitivity reactions** including bronchospasm, laryngospasm, cardiovascular collapse possibly related to local anesthesia from chewing or sucking the capsule.

**CNS:** sedation; headache; dizziness; mental confusion; visual hallucinations.

**GI:** constipation; nausea; GI upset.

**Dermatologic:** pruritus; skin eruptions.

**Other:** nasal congestion; sensation of burning in the eyes; vague "chilly" sensation; numbness of the chest; hypersensitivity.

Deliberate or accidental overdose has resulted in death, particularly in children.

### OVERDOSAGE

Intentional and unintentional overdose may result in death, particularly in children.

The drug is chemically related to tetracaine and other topical anesthetics and shares various aspects of their pharmacology and toxicology. Drugs of this type are generally well absorbed after ingestion.

### Signs and Symptoms

The signs and symptoms of overdose of benzonate have been reported within 15-20 minutes. If capsules are chewed or dissolved in the mouth, oropharyngeal anesthesia will develop rapidly, which may cause choking and airway compromise.

CNS stimulation may cause restlessness and tremors which may proceed to clonic convulsions followed by profound CNS depression. Convulsions, coma, cerebral edema and cardiac arrest leading to death have been reported within 1 hour of ingestion.

#### Treatment:

In case of overdose, seek medical attention immediately. Evacuate gastric contents and administer copious amounts of activated charcoal slurry. Even in the conscious patient, cough and gag reflexes may be so depressed as to necessitate special attention to protection against aspiration of gastric contents and orally administered materials. Convulsions should be treated with a short-acting barbiturate given intravenously and carefully titrated for the smallest effective dosage. Intensive support of respiration and cardiovascular-renal function is an essential feature of the treatment of severe intoxication from overdosage.

Do not use CNS stimulants.

### DOSAGE AND ADMINISTRATION

Adults and Children over 10 years of age: Usual dose is one 100 mg, 150 mg or 200 mg capsule three times a day as needed for cough. If necessary to control cough, up to 600 mg daily in three divided doses may be given. **Benzonate capsules should be swallowed whole.** Benzonate capsules are not to be broken, chewed, dissolved, cut or crushed.

### HOW SUPPLIED

Benzonate Capsules, USP are available in 100 mg, 150 mg and 200 mg dosage strengths.

The 100 mg capsules are yellow round capsules containing clear to light yellow liquid, printed with '1' sign in black ink.

NDC 72865-117-30 bottles of 30 capsules

NDC 72865-117-01 bottles of 100 capsules

NDC 72865-117-05 bottles of 500 capsules

The 150 mg capsules are orange round capsules containing clear, light yellow to orange liquid, printed with '2' sign in black ink.

NDC 72865-118-30 bottles of 30 capsules

NDC 72865-118-01 bottles of 100 capsules

NDC 72865-118-05 bottles of 500 capsules

The 200 mg capsules are yellow round capsules containing clear to light yellow liquid, printed with '3' sign in black ink.

NDC 72865-119-30 bottles of 30 capsules

NDC 72865-119-01 bottles of 100 capsules

NDC 72865-119-05 bottles of 500 capsules

#### Store at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature].

Protect from light. Dispense in tight, light-resistant container as defined in the USP with a child-resistant closure.

Manufactured by:

Ascent Pharmaceuticals, Inc.

Central Islip, NY 11722

Manufactured for:

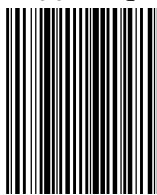
XLCare Pharmaceuticals, Inc.

242 South Culver Street, Suite 202

Lawrenceville, GA 30046

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Benzonate  
Capsules, USP



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