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Levsin SL: Package Insert / Prescribing Info

Package insert / product label

Generic name: [hyoscyamine sulfate](#)

Dosage form: tablet, orally disintegrating

Drug class: [Anticholinergics / antispasmodics](#)

[Medically reviewed](#) by Drugs.com. Last updated on Oct 21, 2024.

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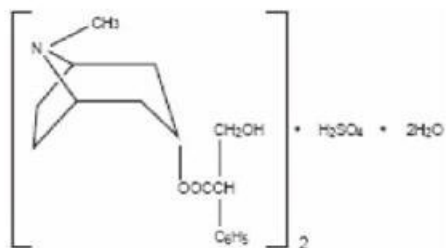
Rx only

500364 113 Rev. 02/08

Levsin SL Description

Levsin[®]/SL tablets (hyoscyamine sulfate tablets USP) contain 0.125 mg hyoscyamine sulfate formulated for sublingual administration. However, the tablets may be chewed or taken orally.

Levsin[®]/SL is one of the principal anticholinergic/antispasmodic components of belladonna alkaloids. The empirical formula is $(C_{17}H_{23}NO_3)_2 \cdot H_2SO_4 \cdot 2H_2O$ and the molecular weight is 712.85. Chemically, it is benzeneacetic acid, ~-(hydroxymethyl)-,8-methyl-8-azabicyclo [3.2.1.] oct-3-yl ester, [3(S)-endo]-, sulfate (2:1), dihydrate with the following structure:



Each tablet also contains as inactive ingredients: FD&C blue #1, lactose monohydrate, magnesium stearate, mannitol, starch and stearic acid.

Levsin SL - Clinical Pharmacology

Levsin[®]/SL inhibits specifically the actions of acetylcholine on structures innervated by postganglionic cholinergic nerves and on smooth muscles that respond to acetylcholine but lack cholinergic innervation. These peripheral cholinergic receptors are present in the autonomic effector cells of the smooth muscle, cardiac muscle, the sinoatrial node, the atrioventricular node, and the exocrine glands. At therapeutic doses, it is completely devoid of any action on autonomic ganglia. Levsin[®]/SL inhibits gastrointestinal propulsive motility and decreases gastric acid secretion. Levsin[®]/SL also controls excessive pharyngeal, tracheal and bronchial secretions.

Levsin[®]/SL is absorbed totally and completely by sublingual administration as well as oral administration. Once absorbed, Levsin[®]/SL disappears rapidly from the blood and is distributed throughout the entire body. The half-life of Levsin[®]/SL is 2 to 3½ hours. Levsin[®]/SL is partly hydrolyzed to tropic acid and tropine but the majority of the drug is excreted in the urine unchanged within the first 12 hours. Only traces of this drug are found in breast milk. Levsin[®]/SL passes the blood brain barrier and the placental barrier. The tablets can be taken orally with the same pharmacological effects occurring; however, the effects may not occur as rapidly as with sublingual administration.

Indications and Usage for Levsin SL

Levsin[®]/SL is effective as adjunctive therapy in the treatment of peptic ulcer. It can also be used to control gastric secretion, visceral spasm and hypermotility in spastic colitis, spastic bladder, cystitis, pylorospasm, and associated abdominal cramps. May be used in functional intestinal disorders to reduce symptoms such as those seen in mild dysenteries, diverticulitis, and acute enterocolitis. For use as adjunctive therapy in the treatment of irritable bowel syndrome (irritable colon, spastic colon, mucous colitis) and functional gastrointestinal disorders. Also used as adjunctive therapy in the treatment of neurogenic bladder and neurogenic bowel disturbances (including the splenic flexure syndrome and neurogenic colon). Also used in the treatment of infant colic (elixir and drops). Levsin[®]/SL is indicated along with morphine or other narcotics in symptomatic relief of biliary and renal colic; as a "drying agent" in the relief of symptoms of acute rhinitis; in the therapy of parkinsonism to reduce rigidity and tremors and to control associated sialorrhea and hyperhidrosis. May be used in the therapy of poisoning by anticholinesterase agents.

Contraindications

Glaucoma; obstructive uropathy (for example, bladder neck obstruction due to prostatic hypertrophy); obstructive disease of the gastrointestinal tract (as in achalasia, pyloroduodenal stenosis); paralytic ileus, intestinal atony of elderly or debilitated patients; unstable cardiovascular status in acute hemorrhage; severe ulcerative colitis; toxic megacolon complicating ulcerative colitis; myasthenia gravis.

Warnings

In the presence of high environmental temperature, heat prostration can occur with drug use (fever and heat stroke due to decreased sweating). Diarrhea may be an early symptom of incomplete intestinal obstruction, especially in patients with ileostomy or colostomy. In this instance, treatment with this drug would be inappropriate and possibly harmful. Like other anticholinergic agents, Levsin[®]/SL may produce drowsiness, dizziness or blurred vision. In this event, the patient should be warned not to engage in activities requiring mental alertness such as operating a motor vehicle or other machinery or to perform hazardous work while taking this drug.

Psychosis has been reported in sensitive individuals given anticholinergic drugs including hyoscyamine sulfate. CNS signs and symptoms include confusion, disorientation, short-term memory loss, hallucinations, dysarthria, ataxia, euphoria, anxiety, fatigue, insomnia, agitation and mannerisms, and inappropriate affect. These CNS signs and symptoms usually resolve within 12 to 48 hours after discontinuation of the drug.

Precautions

General:

Use with caution in patients with: autonomic neuropathy, hyperthyroidism, coronary heart disease, congestive heart failure, cardiac arrhythmias, hypertension, and renal disease. Investigate any tachycardia before giving any anticholinergic drug since they may increase the heart rate. Use with caution in patients with hiatal hernia associated with reflux esophagitis.

Information for Patients:

Like other anticholinergic agents, Levsin[®]/SL may produce drowsiness, dizziness, or blurred vision. In this event, the patient should be warned not to engage in activities requiring mental alertness such as operating a motor vehicle or other machinery or to perform hazardous work while taking this drug.

Use of Levsin[®]/SL may decrease sweating resulting in heat prostration, fever or heat stroke; febrile patients or those who may be exposed to elevated environmental temperatures should use caution.

Drug Interactions:

Additive adverse effects resulting from cholinergic blockade may occur when Levsin[®]/SL is administered concomitantly with other antimuscarinics, amantadine, haloperidol, phenothiazines, monoamine oxidase (MAO) inhibitors, tricyclic antidepressants or some antihistamines.

Antacids may interfere with the absorption of Levsin[®]/SL. Administer Levsin[®]/SL before meals; antacids after meals.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term studies in animals have been performed to determine the carcinogenic, mutagenic or impairment of fertility potential of Levsin[®]/SL; however, 40 years of marketing experience with hyoscyamine sulfate shows no demonstrable evidence of a problem.

Pregnancy-Pregnancy Category C:

Animal reproduction studies have not been conducted with Levsin[®]/SL. It is also not known whether Levsin[®]/SL can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Levsin[®]/SL should be given to a pregnant woman only if clearly needed.

Nursing Mothers:

Levsin[®]/SL is excreted in human milk. Caution should be exercised when Levsin[®]/SL is administered to a nursing woman.

Geriatric Use:

Reported clinical experience has not identified differences in safety between patients aged 65 and over and younger patients. In general, dose 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.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Adverse Reactions/Side Effects

All of the following adverse reactions have been reported with hyoscyamine sulfate. Adverse reactions may include dryness of the mouth; urinary hesitancy and retention; blurred vision; tachycardia; palpitations; mydriasis; increased ocular tension; loss of taste; headache; nervousness; drowsiness; weakness; fatigue; dizziness; insomnia; nausea; vomiting; impotence; constipation; bloated feeling; abdominal pain; diarrhea; allergic reactions or drug idiosyncrasies; urticaria and other dermal manifestations; ataxia; speech disturbance; some degree of mental confusion and/or excitement (especially in elderly persons); short-term memory loss; hallucinations; and decreased sweating.

Overdosage

The signs and symptoms of overdose are headache, nausea, vomiting, blurred vision, dilated pupils, hot dry skin, dizziness, dryness of the mouth, difficulty in swallowing, and CNS stimulation.

Measures to be taken are immediate lavage of the stomach and injection of physostigmine 0.5 to 2 mg intravenously and repeated as necessary up to a total of 5 mg. Fever may be treated symptomatically (tepid water sponge baths, hypothermic blanket). Excitement to a degree which demands attention may be managed with sodium thiopental 2% solution given slowly intravenously or chloral hydrate (100- 200 mL of a 2% solution) by rectal infusion. In the event of progression of the curare-like effect to paralysis of the respiratory muscles, artificial respiration should be instituted and maintained until effective respiratory action returns.

In rats, the LD₅₀ for hyoscyamine is 375 mg/kg. Levsin[®]/SL is dialyzable.

Levsin SL Dosage and Administration

Dosage may be adjusted according to the conditions and severity of symptoms. The tablets may be taken sublingually, orally or chewed.

Adults and pediatric patients 12 years of age and older: 1 to 2 tablets every four hours or as needed. Do not exceed 12 tablets in 24 hours.

Pediatric patients 2 to under 12 years of age: ½ to 1 tablet every four hours or as needed. Do not exceed 6 tablets in 24 hours.

How is Levsin SL supplied

Levsin[®]/SL tablets (hyoscyamine sulfate tablets USP) 0.125 mg are round, blue colored tablets that are imprinted with “AP” on one side and “113” on the other.

Bottles of 100 tablets NDC 68220-113-10

Bottles of 500 tablets NDC 68220-113-50

Store at controlled room temperature 20° - 25°C (68° - 77°F); excursions permitted to 15° - 30°C (59° - 86°F). Please refer to current USP.

Dispense in tight, light-resistant containers as defined in USP/NF with a child-resistant closure.

KEEP OUT OF REACH OF CHILDREN

Also available as:

Levsin [®]	Dosage Strength	Package Size	NDC
Tablets	0.125mg	100	68220-112-10
Tablets	0.125mg	500	68220-112-50
Sub-lingual Tablets	0.125mg	100	68220-113-10
Sub-lingual Tablets	0.125mg	500	68220-113-50
Elixir	0.125mg/5 mL	Pint	0091-4532-16
Drops	0.125mg/mL	15mL	0091-4538-15
Injection	0.5mg/mL	Box of 5-1mL	0091-1536-05
Levbid [®] extended-release tablets	0.375mg	100	68220-115-10
	0.375mg	500	68220-115-50

Manufactured for:

ALAVEN[®] PHARMACEUTICAL LLC

Marietta, GA 30067

Address medical inquiries to:
Alaven Pharmaceutical LLC
2260 Northwest Parkway, Suite A
Marietta, GA 30067

Or call toll free 1-888-317-0001

PRINCIPAL DISPLAY PANEL – 0.125 mg

NDC 68220-113-10

Levsin /SL[®] tablets

(hyoscyamine sulfate tablets USP)

0.125 mg

sublingual / chewable / oral

Rx only

ALAVEN PHARMACEUTICAL LLC

100 tablets

For medical inquiries call 1-888-317-0001

Each tablet contains 0.125 mg hyoscyamine sulfate, USP.

USUAL DOSAGE: See package insert for full prescribing information.

Dispense in tight, light-resistant containers as defined in USP/NF with a child-resistant closure.

Store at controlled room temperature 20° - 25°C (68° - 77°F); brief excursions permitted to 15° - 30°C (59° - 86°F). Please refer to current USP.

Mfg. for: Alaven Pharmaceutical LLC

2260 Northwest Parkway

Marietta, GA 30067

www.alavenpharm.com

400646-08 Rev 04/2017

NDC 68220-113-10

Levsin®/SL tablets
(hyoscyamine sulfate tablets USP)

0.125 mg
sublingual / chewable / oral

Rx only

ALAVEN®

100 tablets

For medical inquiries call 1-888-317-0001

GTIN XXXXXXXXXXXX
S/N XXXXXXXXXXXX
EXP MM YYYY
LOT XXXXXX

Each tablet contains 0.125 mg hyoscyamine sulfate, USP.
USUAL DOSAGE: See package insert for full prescribing information.
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Mfg. for: Alaven Pharmaceutical LLC
2260 Northwest Parkway
Marietta, GA 30067
www.alavenpharm.com

400646-08 Rev 04/2017

LEVSIN SL
hyoscyamine sulfate tablet, orally disintegrating

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68220-113
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HYOSCYAMINE SULFATE (UNII: F2R8V82B84) (HYOSCYAMINE - UNII:PX44XO846X)	HYOSCYAMINE SULFATE	0.125 mg

Inactive Ingredients

Ingredient Name	Strength
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MANNITOL (UNII: 3OWL53L36A)	
STARCH, CORN (UNII: O8232NY3SJ)	
STEARIC ACID (UNII: 4ELV7Z65AP)	

Product Characteristics

Color	BLUE	Score	no score
Shape	ROUND	Size	8mm
Flavor		Imprint Code	AP;113
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68220-113-10	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2008	
2	NDC:68220-113-50	500 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2008	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
Unapproved drug other		12/01/2008	

Labeler - Alaven Pharmaceutical LLC (140210829)

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DRUG STATUS

Availability

Rx Prescription only

[Pregnancy & Lactation](#)

 Risk data available

CSA Schedule*

N/A Not a controlled drug



User Reviews & Ratings

9.8 / 10

[9 Reviews](#)

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