

ATROPINE SULFATE- atropine sulfate injection

Hikma Pharmaceuticals USA Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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These highlights do not include all the information needed to use ATROPINE SULFATE INJECTION safely and effectively. See full prescribing information for ATROPINE SULFATE INJECTION.

ATROPINE SULFATE injection, for intravenous, intramuscular, subcutaneous, intraosseous or endotracheal use.

Initial U.S. Approval: 1960

INDICATIONS AND USAGE

Atropine is a muscarinic antagonist indicated for temporary blockade of severe or life threatening muscarinic effects. (1)

DOSAGE AND ADMINISTRATION

- Dosage is individualized by use, refer to the full prescribing information for recommended adult and pediatric dosages (2.2, 2.3).
- Patients with Ischemic Heart Disease: Do not exceed 0.04 mg/kg. (2.4, 5.2)

DOSAGE FORMS AND STRENGTHS

Injection: 8 mg per 20 mL (0.4 mg per mL) multiple dose glass vial (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

Hypersensitivity (5.1)
Worsening of Ischemic Heart Disease (5.2)
Acute Glaucoma (5.3)
Pyloric obstruction (5.4)
Complete urinary retention (5.5)
Viscid plugs (5.6)

ADVERSE REACTIONS

Most adverse reactions are directly related to atropine's antimuscarinic action. Dryness of the mouth, blurred vision, photophobia and tachycardia commonly occur with chronic administration of therapeutic doses. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Hikma Pharmaceuticals USA Inc. at 1-877-845-0689 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

Mexiletine: Decreases rate of mexiletine absorption. (7.1)

Revised: 1/2023

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* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Atropine is indicated for temporary blockade of severe or life threatening muscarinic effects, e.g., as an antisialagogue, an antivagal agent, an antidote for organophosphorus, carbamate, or muscarinic mushroom poisoning, and to treat symptomatic bradycardia.

2 DOSAGE AND ADMINISTRATION

2.1 General Administration

Inspect parenteral drug products for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not administer unless solution is clear and seal is intact.

After initial use, discard unused portion within 24 hours.

Intravenous administration is usually preferred, but subcutaneous, intramuscular, endotracheal, and intraosseous administration are possible.

2.2 Adult Dosage

Table 1: Recommended Dosage in Adult Patients

Use	Initial Dose	Continued Treatment
Antisialagogue or other antivagal (preanesthesia and during surgery)	0.5 to 1 mg IV/IM/SC 30 to 60 minutes preoperatively	Repeat as needed every 4 to 6 hours. <u>Maximum Total Dose</u> 3 mg
Organophosphorus, carbamate, or muscarinic mushroom poisoning	1 to 6 mg IV/IM/ET depending on severity of symptoms	Repeat as needed every 3 to 5 minutes Dose may be doubled with each administration until response (reduced bronchospasm, improved oxygenation and drying of pulmonary secretions).
		<i>Maintenance Dose:</i> Administer 10% to 20% of the loading dose required for response as a continuous infusion per hour and titrate.
		<u>Maximum Total Dose:</u> No maximum total dose.
Symptomatic	0.5 mg IV/IM or 1 to 2 mg ET by diluting in	As needed every 3 to 5 minutes

bradycardia*	no more than 10 mL sterile water for injection or 0.9% sodium chloride	<u>Maximum Total</u>
		<u>Dose</u> 3 mg

IV=intravenous; IM=intramuscular; SC=subcutaneous; ET=endotracheal

*Do not rely on atropine in type II second-degree or third-degree AV block with wide QRS complexes because these bradyarrhythmias are not likely to be responsive to reversal of cholinergic effects by atropine. Atropine has no effect on bradycardia in patients with transplanted hearts.

2.3 Pediatric Dosage

Table 2: Recommended Dosage in Pediatric Patients

Use	Initial Dose	Continued Treatment	
Antisialagogue or other anticholinergic (preanesthesia and during surgery)*	0.02 mg/kg IV/IM/SC 30 to 60 minutes preoperatively	Repeat as needed every 4 to 6 hours.	
		<u>Maximum Single Dose</u> <i>Less than 12 years old: 0.5 mg</i> <i>12 years and older: 1 mg</i>	<u>Maximum Total Dose</u> <i>Less than 12 years old: 1 mg</i> <i>12 years and older: 2 mg</i>
Organophosphorus, carbamate or muscarinic	0.02 to 0.06 mg/kg IV/IM/IO/ET	Repeat as needed every 5 minutes	
mushroom poisoning		(reduced bronchospasm, improved oxygenation and drying of pulmonary secretions). <i>Maintenance Dose:</i> Administer 10% to 20% of the loading dose required for response as a continuous infusion per hour and titrate as needed. <u>Maximum Total Dose:</u> No maximum total dose.	
Symptomatic bradycardia due to increased vagal tone or primary AV conduction block (not secondary to hypoxia) **	0.02 mg/kg IV/IO or 0.04 to 0.06 mg/kg via endotracheal tube followed by 1 to 5 mL flush of normal saline followed by 5 ventilations	Repeat as needed every 5 minutes	
		<u>Maximum Single Dose</u> <i>Less than 12 years old: 0.5 mg</i> <i>12 years and older: 1 mg</i>	

IV=intravenous; IM=intramuscular; SC=subcutaneous; IO=intraosseous;
ET=endotracheal;

*Available evidence does not support the routine use of atropine in emergency intubation of critically ill infants and children except in specific emergency intubations when there is higher risk of bradycardia

** Atropine has no effect on bradycardia in patients with transplanted hearts.

2.4 Dosing in Patients with Ischemic Heart Disease

Limit the total dose of atropine sulfate to 0.03 to 0.04 mg/kg [*see Warnings and Precautions (5.2)*].

3 DOSAGE FORMS AND STRENGTHS

Atropine Sulfate Injection, USP, 8 mg per 20 mL (0.4 mg per mL), is a non-pyrogenic, isotonic, clear solution and is supplied in a multiple dose glass vial.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity

Atropine
may cause
anaphylaxis.

5.2 Worsening of Ischemic Heart Disease

In patients with ischemic heart disease, the total dose should be restricted to 2 to 3 mg (maximum 0.03 to 0.04 mg/kg) to avoid atropine-induced tachycardia, increased myocardial oxygen demand and the potential for worsening cardiac ischemia or increasing infarction size.

5.3 Acute Glaucoma

Atropine may precipitate acute glaucoma.

5.4 Pyloric Obstruction

Atropine may convert partial organic pyloric stenosis into complete obstruction.

5.5 Complete Urinary Retention

Atropine may lead to complete urinary retention in patients with prostatic hypertrophy.

5.6 Viscid Plugs

Atropine may cause thickening of bronchial secretions and formation of viscid plugs in patients with chronic lung disease.

5.7 Benzyl Alcohol

The preservative benzyl alcohol has been associated with serious adverse events and death in neonates. The “gasping syndrome” (characterized by central nervous system depression, metabolic acidosis, gasping respirations, and high levels of benzyl alcohol and its metabolites found in the blood and urine) has been associated with benzyl alcohol dosages >99 mg/kg/day in neonates and low-birth weight infants. Additional symptoms may include gradual neurological deterioration, seizures, intracranial hemorrhage, hematologic abnormalities, skin breakdown, hepatic and renal failure, hypotension, bradycardia, and cardiovascular collapse.

Although normal therapeutic doses of this product deliver amounts of benzyl alcohol that are substantially lower than those reported in association with the “gasping syndrome”, the minimum amount of benzyl alcohol at which toxicity may occur is not known. Premature and low-birth weight infants may be more likely to develop toxicity. Practitioners administering this and other medications containing benzyl alcohol should consider the combined daily metabolic load of benzyl alcohol from all sources.

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in labeling:

• <i>Hypersensitivity (5.1)</i>
• <i>Worsening of Ischemic Heart Disease (5.2)</i>
• <i>Acute Glaucoma (5.3)</i>
• <i>Pyloric Obstruction (5.4)</i>
• <i>Complete Urinary Retention (5.5)</i>
• <i>Viscid Plugs (5.6)</i>

The following adverse reactions have been identified during post-approval use of atropine sulfate.

Because these reactions are reported voluntarily from a population of uncertain size, it is not always

possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Most of the side effects of atropine are directly related to its antimuscarinic action. Dryness of the

mouth, blurred vision, photophobia and tachycardia commonly occur. Anhidrosis can produce heat intolerance.

Constipation and difficulty in micturition may occur. Occasional hypersensitivity

reactions have been observed, including serious skin rashes. Paralytic ileus may occur.

Exacerbation of reflux has been reported. Larger or toxic doses

may produce such central effects as restlessness,
tremor, fatigue, locomotor difficulties, delirium, followed by hallucinations, depression, and
ultimately, medullary paralysis and death. Large doses can also lead to circulatory collapse. In such
cases, blood pressure declines and death due to respiratory failure may ensue following paralysis and
coma.

7 DRUG INTERACTIONS

7.1 Mexiletine

Atropine Sulfate Injection decreased the rate of mexiletine absorption without altering the relative oral
bioavailability; this delay in mexiletine absorption was reversed by the combination of atropine and
intravenous metoclopramide during pretreatment

for anesthesia.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Limited available data with Atropine Sulfate Injection use in pregnant women are insufficient to

inform a drug associated risk of adverse developmental outcomes (see <i>Data</i>). There are risks to the
mother and fetus associated with untreated severe or life-threatening muscarinic events (see <i>Clinical</i>
<i>Considerations</i>). Animal reproduction studies have not been conducted with Atropine Sulfate Injection.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Severe or life-threatening muscarinic events such as acute organophosphate poisoning and symptomatic bradycardia are medical emergencies in pregnancy which can be fatal if left untreated. Life-sustaining therapy for the pregnant woman should not be withheld due to potential concerns regarding the effects of atropine on the fetus.

Data

Human Data

No adequate and well-controlled studies are available regarding use of atropine in pregnant women. In a cohort study of 401 pregnancies in the first trimester and 797 pregnancies in the second or third trimester, atropine use was not associated with an increased risk of congenital malformation. In a surveillance study, 381 newborns were exposed to atropine during the first trimester; 18 major birth defects were observed when 16 were expected. No specific pattern of major birth defects was identified. In another surveillance study of 50 pregnancies in the first trimester, atropine use was not associated with an increased risk of malformations. Methodological limitations of these observational studies including the inability to control for the dosage and timing of atropine exposure, underlying maternal disease, or concomitant maternal drug use, cannot definitively establish or exclude any drug-associated risk during pregnancy.

8.2 Lactation

Risk Summary

Trace amounts of atropine have been reported in human milk after oral intake. There are no available data on atropine levels in human milk after intravenous injection, the effects on the breastfed infant, or the effects on milk production. The lack of clinical data during lactation precludes a clear determination of the risk of atropine to an infant during lactation.

Clinical Considerations

Minimizing exposure

The elimination half-life of atropine is more than doubled in children less than 2 years of age [see *Clinical Pharmacology (12.3)*]. To minimize potential infant exposure to Atropine Sulfate Injection, a woman may pump and discard her milk for 24 hours after use before resuming to breastfeed her infant.

8.5 Geriatric Use

An evaluation of current literature revealed no clinical experience identifying differences in response between elderly 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.

10 OVERDOSAGE

Excessive dosing may cause palpitation, dilated pupils, difficulty in swallowing, hot dry skin, thirst, dizziness, restlessness, tremor, fatigue and ataxia. Toxic doses lead to restlessness and excitement, hallucinations, delirium and coma. Depression and

circulatory collapse occur only with severe intoxication. In such cases, blood pressure declines and death due to respiratory failure may ensue following paralysis and coma.

The fatal adult dose of atropine is not known. In pediatric populations, 10 mg or less may be fatal.

In the event of toxic overdosage, a short acting barbiturate or diazepam may be given as needed to control marked excitement and convulsions. Large doses for sedation should be avoided because central depressant action may coincide with the depression occurring late in atropine poisoning.

Central stimulants are not recommended.

Physostigmine, given as an atropine antidote by slow intravenous injection of 1 to 4 mg (0.5 to 1 mg in pediatric populations), rapidly abolishes delirium and coma caused by large doses of atropine. Since physostigmine is rapidly destroyed, the patient may again lapse into coma after one to two hours, and repeated doses may be required.

Artificial respiration with oxygen may be necessary. Ice bags and alcohol sponges help to reduce fever, especially in pediatric populations.

Atropine is not removed by dialysis.

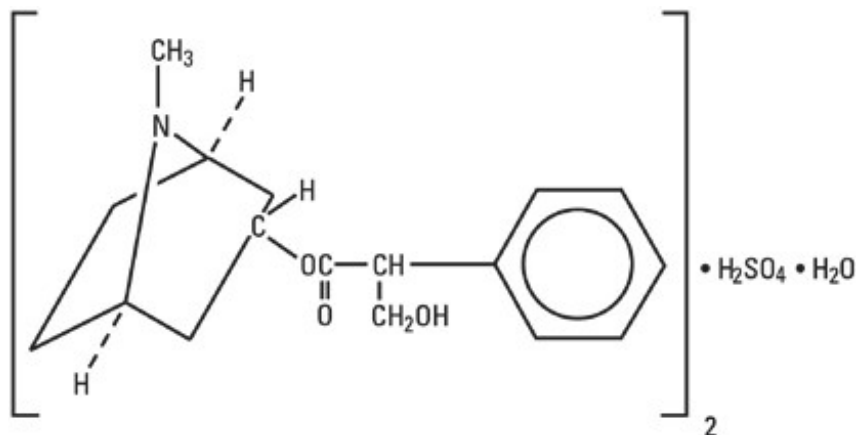
11 DESCRIPTION

Atropine Sulfate Injection, USP is a sterile, nonpyrogenic, isotonic, clear solution of atropine sulfate in water for injection with sodium chloride sufficient to render the solution isotonic. It is administered parenterally by subcutaneous, intramuscular or intravenous injection.

Each mL contains atropine sulfate, 0.4 mg; benzyl alcohol, 9 mg; sodium chloride 9 mg. May contain sulfuric acid for pH adjustment. pH 3.5 (3.0 to 3.8).

Sodium chloride added to render the solution isotonic for injection of the active ingredient is present in amounts insufficient to affect serum electrolyte balance of sodium (Na⁺) and chloride (Cl⁻) ions.

Atropine Sulfate, USP is chemically designated 1 α H, 5 α H-Tropan-3- α -ol (\pm)-tropate (ester), sulfate (2:1) (salt) monohydrate, (C₁₇H₂₃NO₃)₂ · H₂SO₄ · H₂O, colorless crystals or white crystalline powder very soluble in water. It has the following structural formula:



Atropine Sulfate Structural Formula

Atropine, a naturally occurring belladonna alkaloid, is a racemic mixture of equal parts of d- and l-hyocyanine, whose activity is due almost entirely to the levo isomer of the drug.

Sodium Chloride, USP is chemically designated NaCl, a white crystalline powder freely soluble in water.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Atropine is an antimuscarinic agent since it antagonizes the muscarine-like actions of acetylcholine and other choline esters.

Atropine inhibits the muscarinic actions of acetylcholine on structures innervated by postganglionic cholinergic nerves, and on smooth muscles which respond to endogenous acetylcholine but are not so innervated. As with other antimuscarinic agents, the major action of atropine is a competitive or surmountable antagonism which can be overcome by increasing the concentration of acetylcholine at receptor sites of the effector organ (e.g., by using anticholinesterase agents which inhibit the enzymatic destruction of acetylcholine). The receptors antagonized by atropine are the peripheral structures that are stimulated or inhibited by muscarine (i.e., exocrine glands and smooth and cardiac muscle). Responses to postganglionic cholinergic nerve stimulation also may be inhibited by atropine but this occurs less readily than with responses to injected (exogenous) choline esters.

12.2 Pharmacodynamics

Atropine-induced parasympathetic inhibition may be preceded by a transient phase of stimulation, especially on the heart where small doses first slow the rate before characteristic tachycardia develops due to paralysis of vagal control. Atropine exerts a more potent and prolonged effect on heart, intestine and bronchial muscle than scopolamine, but its action on the iris, ciliary body and certain secretory glands is weaker than that of scopolamine. Unlike the latter, atropine in clinical doses does not depress the central nervous system but may stimulate the medulla and higher cerebral centers. Although mild vagal excitation occurs, the increased respiratory rate and (sometimes) increased depth of respiration produced by atropine are more probably the result of bronchiolar dilatation. Accordingly, atropine is an unreliable respiratory stimulant and large or repeated doses may depress respiration.

Adequate doses of atropine abolish various types of reflex vagal cardiac slowing or asystole. The drug also prevents or abolishes bradycardia or asystole produced by injection of choline esters, anticholinesterase agents or other parasympathomimetic drugs, and cardiac arrest produced by stimulation of the vagus. Atropine also may lessen the degree of partial heart block when vagal activity is an etiologic factor. In some patients with complete heart block, the idioventricular rate may be accelerated by atropine; in others, the rate is stabilized. Occasionally a large dose may cause atrioventricular (A-V) block and nodal rhythm.

Atropine in clinical doses counteracts the peripheral dilatation and abrupt decrease in blood pressure produced by choline esters. However, when given by itself, atropine does not exert a striking or uniform effect on blood vessels or blood pressure. Systemic doses slightly raise systolic and lower diastolic pressures and can produce significant postural hypotension. Such doses also slightly increase cardiac output and decrease central venous pressure. Occasionally, therapeutic doses dilate cutaneous blood vessels, particularly in the “blush” area (atropine flush), and may cause atropine “fever” due to suppression of sweat gland activity in infants and small children.

The effects of intravenous atropine on heart rate (maximum heart rate) and saliva flow (minimum flow) after I.V. administration (rapid, constant infusion over 3 min.) are delayed by 7 to 8 minutes after drug administration and both effects are non-linearly related to the amount of drug in the peripheral compartment. Changes in plasma atropine levels following intramuscular administration (0.5 to 4 mg doses) and heart rate are closely overlapped but the time course of the changes in atropine levels and behavioral impairment indicates that pharmacokinetics is not the primary rate-limiting mechanism for the central nervous system effect of atropine.

12.3 Pharmacokinetics

Absorption

After intramuscular administration, atropine is absorbed with peak concentration occurring at 30 min following injection.

Effects of exercise:

Exercise following intramuscular administration of atropine significantly increases the absorption of atropine due to increased perfusion in the muscle, with an increase in AUC by approximately 20% and C_{max} by approximately 80%.

Distribution

Atropine is distributed throughout the body. Atropine’s plasma protein binding is about 44% and saturable in the 2 to 20 mcg/mL concentration range.

Elimination

The pharmacokinetics of atropine is nonlinear after intravenous administration of 0.5 to 4 mg. Atropine disappears from the blood following injection with a plasma half-life of about 2 to 4 hours. Much of the drug is destroyed by enzymatic hydrolysis, particularly in the liver, with 13 to 50% is excreted unchanged in the urine.

Metabolism

The major metabolites of atropine are noratropine, atropin-n-oxide, tropine, and tropic acid. The metabolism of atropine is inhibited by organophosphate pesticides.

Specific Populations

Pregnant Women

Atropine readily crosses the placental barrier and enters the fetal circulation, but is not found in amniotic fluid.

Nursing Mother

Traces are found in various secretions, including milk.

Pediatric and Geriatric Patients

The elimination half-life of atropine is more than doubled in children under two years, and the elderly (> 65 years old) compared to other age groups.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis and Mutagenesis and Impairment of Fertility

Studies have not been performed to evaluate the carcinogenic or mutagenic potential of atropine or its potential to affect fertility adversely.

16 HOW SUPPLIED

Atropine Sulfate Injection, USP is a non-pyrogenic, isotonic, clear solution and is supplied as follows:

Presentation	Single Vial	10 Vial Pack
NDC#	0641-6251-01	0641-6251-10
Description	8 mg per 20 mL (0.4 mg per mL) Multiple-dose vial	20 mL multiple-dose vial, packaged in a carton containing 10 vials.

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

After initial use, store between 20° to 25°C (68° to 77°F) and discard within 24 hours.

Manufactured by:

Hikma Pharmaceuticals USA Inc.

Berkeley Heights, NJ 07922

Revised: December 2021

462-917-00

PRINCIPAL DISPLAY PANEL

NDC 0641-6251-01 Rx only

Atropine Sulfate Injection, USP

8 mg per 20 mL (0.4 mg/mL)

For intravenous, intramuscular, subcutaneous, intraosseous, or endotracheal use.

20 mL Multiple Dose Vial

NDC 0641-6251-01 Rx only

Atropine Sulfate Injection, USP

8 mg per 20 mL
(0.4 mg/mL)

For Intravenous, Intramuscular, Subcutaneous, Intraosseous, or Endotracheal use.
20 mL Multiple-Dose Vial

Each mL contains: Atropine sulfate 0.4 mg (equivalent to 0.33 mg atropine); benzyl alcohol 9 mg; sodium chloride 9 mg; water for injection, q.s.; pH is adjusted with sulfuric acid if necessary. pH 3.5 (3.0 to 3.8).

Usual Dosage: See prescribing information.

After initial use, store between 20° to 25°C (68° to 77°F) and discard within 24 hours.

462-915-00
Mfd. by Hikma
Berkeley Heights, NJ 07922

Lot: Exp:

01000306416251013

Atropine Sulfate Injection, USP 8 mg per 20 mL Container Label

NDC 0641-6251-10 Rx only

Atropine Sulfate Injection, USP

8 mg per 20 mL (0.4 mg/mL)

For intravenous, intramuscular, subcutaneous, intraosseous, or endotracheal use.

10 x 20 mL Multiple Dose Vial

NDC 0641-6251-10 Rx only

Atropine Sulfate Injection, USP

8 mg per 20 mL
(0.4 mg/mL)

For Intravenous, Intramuscular, Subcutaneous, Intraosseous, or Endotracheal use.
10 x 20 mL Multiple-Dose Vials

Each mL contains: Atropine sulfate 0.4 mg (equivalent to 0.33 mg atropine); benzyl alcohol 9 mg; sodium chloride 9 mg; water for injection, q.s.; pH is adjusted with sulfuric acid if necessary. pH 3.5 (3.0 to 3.8).

Usual Dosage: See prescribing information.

After initial use, store between 20° to 25°C (68° to 77°F) and discard within 24 hours.

462-916-00
Manufactured by Hikma
Berkeley Heights, NJ 07922

hikma.

LOT: EXP:

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Atropine Sulfate Injection, USP 8 mg per 20 mL Carton Label

ATROPINE SULFATE

atropine sulfate injection

Product Information

Product Type

HUMAN PRESCRIPTION DRUG

Item Code (Source)

NDC:0641-6251

Route of AdministrationENDOTRACHEAL, INTRAMEDULLARY, INTRAMUSCULAR,
INTRAVENOUS, SUBCUTANEOUS**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
ATROPINE SULFATE (UNII: 03J5ZE7KA5) (ATROPINE - UNII:7C0697DR9I)	ATROPINE SULFATE	0.4 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	9 mg in 1 mL
BENZYL ALCOHOL (UNII: LKG8494WBH)	9 mg in 1 mL
SULFURIC ACID (UNII: O40UQP6WCF)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0641-6251-10	10 in 1 CARTON	12/01/2021	
1		20 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213561	12/01/2021	

Labeler - Hikma Pharmaceuticals USA Inc. (946499746)

Revised: 1/2023

Hikma Pharmaceuticals USA Inc.