

**PILOCARPINE HYDROCHLORIDE- pilocarpine hydrochloride solution/ drops
Akorn, Inc.**

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PILOCARPINE HYDROCHLORIDE OPHTHALMIC SOLUTION safely and effectively. See full prescribing information for PILOCARPINE HYDROCHLORIDE OPHTHALMIC SOLUTION.

PILOCARPINE HYDROCHLORIDE Ophthalmic Solution, USP 1%, 2% and 4%

Initial U.S. Approval: 1974

----- **INDICATIONS AND USAGE** -----

Pilocarpine hydrochloride ophthalmic solution is a muscarinic cholinergic agonist indicated for

- The reduction of elevated intraocular pressure (IOP) in patients with open-angle glaucoma or ocular hypertension (1.1)
- The management of acute angle-closure glaucoma (1.2)
- The prevention of postoperative elevated IOP associated with laser surgery (1.3)
- The induction of miosis (1.4)

----- **DOSAGE AND ADMINISTRATION** -----

- Instill one drop in the eye(s) up to four times daily (2).

----- **DOSAGE FORMS AND STRENGTHS** -----

- Solution containing 1% (10 mg/mL), 2% (20 mg/mL) or 4% (40 mg/mL) pilocarpine hydrochloride (3)

----- **CONTRAINDICATIONS** -----

None. (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Poor illumination: Exercise caution in night driving and other hazardous occupations in poor illumination (5.1).
- Pre-existing retinal disease: Rare cases of retinal detachment have been reported; a thorough examination of the retina including funduscopy is advised in all patients prior to the initiation of therapy (5.2).
- Iritis: Caution is advised in patients with iritis (5.3).
- Congenital glaucoma: Caution is advised in pediatric patients with primary congenital glaucoma for control of IOP as cases of a paradoxical increase in IOP have been reported (5.4).

----- **ADVERSE REACTIONS** -----

Most common adverse reactions are headache/browache, accommodative change, eye irritation, eye pain, blurred vision, and/or visual impairment (6).

To report SUSPECTED ADVERSE REACTIONS, contact Akorn, Inc. at 1-800-932-5676 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 10/2017

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

- 1.1 Reduction of Elevated Intraocular Pressure (IOP) in Patients with Open-Angle Glaucoma or Ocular Hypertension
- 1.2 Management of Acute Angle-Closure Glaucoma
- 1.3 Prevention of Postoperative Elevated IOP Associated with Laser Surgery
- 1.4 Induction of Miosis

2 DOSAGE AND ADMINISTRATION

- 2.1 Reduction of Elevated Intraocular Pressure (IOP) in Patients with Open-Angle Glaucoma or Ocular Hypertension
- 2.2 Management of Acute Angle-Closure Glaucoma
- 2.3 Prevention of Postoperative Elevated IOP Associated with Laser Surgery

- 2.4 Induction of Miosis
- 2.5 Use with Other Topical Ophthalmic Medications
- 2.6 Use in Pediatric Patients

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Poor Illumination
- 5.2 Pre-existing Retinal Disease
- 5.3 Iritis
- 5.4 Primary Congenital Glaucoma
- 5.5 Contact Lens Wear

6 ADVERSE REACTIONS

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.3 Nursing Mothers
- 8.4 Pediatric Use
- 8.5 Geriatric Use

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

- 17.1 Avoiding Contamination of the Product
- 17.2 Night Driving
- 17.3 Accommodative Spasm
- 17.4 Contact Lens Wear
- 17.5 Concomitant Topical Ocular Therapy
- 17.6 Systemic Exposure

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

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Pilocarpine hydrochloride ophthalmic solution is indicated for the:

1.1 Reduction of Elevated Intraocular Pressure (IOP) in Patients with Open-Angle Glaucoma or Ocular Hypertension

1.2 Management of Acute Angle-Closure Glaucoma

1.3 Prevention of Postoperative Elevated IOP Associated with Laser Surgery

1.4 Induction of Miosis

2 DOSAGE AND ADMINISTRATION

2.1 Reduction of Elevated Intraocular Pressure (IOP) in Patients with Open-Angle Glaucoma or Ocular Hypertension

One drop of pilocarpine hydrochloride ophthalmic solution 1%, 2% or 4% should be applied topically in the eye(s) up to four times daily. Pilocarpine-naïve patients should be started on the 1% concentration as higher concentrations are often not tolerated initially. The frequency of instillation and concentration of pilocarpine hydrochloride ophthalmic solution are determined by the severity of the elevated intraocular pressure and miotic response of the patient.

To limit systemic exposure to pilocarpine, patients may be instructed to perform punctal occlusion for 2 minutes after instillation of pilocarpine hydrochloride ophthalmic solution.

2.2 Management of Acute Angle-Closure Glaucoma

Prior to pilocarpine hydrochloride ophthalmic solution use, treatment with secretory suppressants and hyperosmotic agents may be needed to lower IOP below 50 mmHg and relieve iris ischemia.

For initial management of acute angle-closure glaucoma, one drop of pilocarpine hydrochloride ophthalmic solution 1% or 2% may be applied topically in the eye(s) up to three times over a 30-minute period.

If laser iridoplasty or iridomy is used to break the attack, one drop of pilocarpine hydrochloride ophthalmic solution 4% should be administered prior to the procedure. Following laser iridoplasty, one drop of pilocarpine hydrochloride ophthalmic solution 1% should be administered four times daily until an iridotomy can be performed.

2.3 Prevention of Postoperative Elevated IOP Associated with Laser Surgery

One drop of pilocarpine hydrochloride ophthalmic solution 1%, 2% or 4% (or two drops administered five minutes apart) should be applied topically in the eye(s) 15 to 60 minutes prior to surgery.

2.4 Induction of Miosis

One drop of pilocarpine hydrochloride ophthalmic solution 1%, 2% or 4% (or two drops administered five minutes apart) should be applied topically in the eye(s).

2.5 Use with Other Topical Ophthalmic Medications

Pilocarpine hydrochloride ophthalmic solution may be used in combination with beta-blockers, carbonic anhydrase inhibitors, sympathomimetics or hyperosmotic agents. If more than one topical ophthalmic drug is being used, the drugs should be administered at least five (5) minutes apart.

2.6 Use in Pediatric Patients

In children under 2 years of age, one drop of pilocarpine hydrochloride ophthalmic solution 1% should be applied topically in the eye(s) three times daily. Children 2 years of age and over should be dosed as for adults.

For the induction of miosis prior to goniotomy or trabeculotomy in children, one drop of pilocarpine hydrochloride ophthalmic solution 1% or 2% should be applied topically in the eye 15 to 60 minutes prior to surgery.

3 DOSAGE FORMS AND STRENGTHS

Bottle filled with 15 mL of 1% (10 mg/mL), 2% (20 mg/mL) or 4% (40 mg/mL) pilocarpine hydrochloride sterile ophthalmic solution.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Poor Illumination

Patients should be advised to exercise caution in night driving and other hazardous occupations in poor illumination. In addition, miotics may cause accommodative spasm. Patients should be advised not to drive or use machinery if vision is not clear.

5.2 Pre-existing Retinal Disease

As with all miotics, rare cases of retinal detachment have been reported when used in certain susceptible individuals and those with pre-existing retinal disease; therefore, a thorough examination of the retina including funduscopy is advised in all patients prior to the initiation of therapy.

5.3 Iritis

Pilocarpine hydrochloride ophthalmic solution is not recommended to be used when iritis is present.

5.4 Primary Congenital Glaucoma

Caution is advised when using pilocarpine hydrochloride ophthalmic solution in pediatric patients with primary congenital glaucoma for control of intraocular pressure (IOP) as cases of a paradoxical increase in IOP have been reported. In addition, the use of pilocarpine hydrochloride ophthalmic solution is not recommended in pediatric patients diagnosed with glaucoma secondary to anterior segment dysgenesis or uveitis (especially if uveitis is active).

5.5 Contact Lens Wear

Contact lens wearers should be advised to remove their lenses prior to the instillation of pilocarpine hydrochloride ophthalmic solution and to wait 10 minutes after dosing before reinserting their contact lenses.

6 ADVERSE REACTIONS

Clinical Studies Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety data described below reflect exposure in four controlled clinical trials of 90 days to 2 years duration in 317 patients diagnosed with open-angle glaucoma or ocular hypertension. In the four clinical trials, patients were treated with pilocarpine hydrochloride ophthalmic solution 2%, two to four times daily or with pilocarpine 1%, 1.75% or 2% in fixed combination with betaxolol 0.25%, two or three times daily. The most frequently reported adverse reactions occurring in $\geq 5\%$ of patients in the pilocarpine 2% populations were: headache/browache, accommodative change, blurred vision, eye irritation, visual impairment (dim, dark, or “jumping” vision), and eye pain. The adverse reaction profile reported for the use of pilocarpine hydrochloride ophthalmic solution in pediatric patients is comparable to that seen in adult patients.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy. Category C. Animal reproduction studies have not been conducted with pilocarpine hydrochloride. It is also not known whether pilocarpine hydrochloride can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Pilocarpine hydrochloride ophthalmic solution should be given to a pregnant woman only if clearly needed.

8.3 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 pilocarpine hydrochloride ophthalmic solution is administered to a nursing woman.

8.4 Pediatric Use

Safety and effectiveness of pilocarpine hydrochloride ophthalmic solution in pediatric patients have been established.

8.5 Geriatric Use

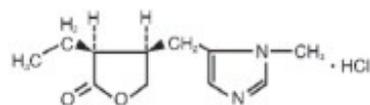
No overall differences in safety or effectiveness have been observed between elderly and younger patients.

10 OVERDOSAGE

Systemic toxicity following topical ocular administration of pilocarpine is rare, but occasionally patients who are sensitive may develop sweating and gastrointestinal overactivity following the suggested dosage and administration. Overdosage can produce sweating, salivation, nausea, tremors and slowing of the pulse and a decrease in blood pressure. In moderate overdosage, spontaneous recovery is to be expected and is aided by intravenous fluids to compensate for dehydration. For patients demonstrating severe poisoning, atropine, the pharmacologic antagonist to pilocarpine, should be used.

11 DESCRIPTION

Pilocarpine Hydrochloride Ophthalmic Solution, USP is a cholinergic agonist prepared as a sterile topical ophthalmic solution. The active ingredient is represented by the chemical structure:



Established name: Pilocarpine hydrochloride

Chemical name: 2(3*H*)-furanone, 3-ethylidihydro-4-[(1-methyl-1*H*-imidazol-5-yl)-methyl]-monohydrochloride, (3*S*-*cis*)-.

Molecular Formula: C₁₁H₁₆N₂O₂ • HCl

Molecular Weight: 244.72

Each mL of Pilocarpine Hydrochloride Ophthalmic Solution, USP contains:

Active: Pilocarpine hydrochloride 1% (10 mg/mL), 2% (20 mg/mL), or 4% (40 mg/mL).

Preservative: Benzalkonium chloride 0.01%.

Inactives: Hypromellose (2910) 5 mg (0.5%), boric acid, sodium citrate, sodium chloride (present in 1% only); hydrochloric acid and/or sodium hydroxide (to adjust pH); water for injection.

Pilocarpine Hydrochloride Ophthalmic Solution, USP has a pH of 3.5 to 5.5 and an osmolality of 270 to 350 mOsm/kg (1% product), 290 to 350 mOsm/kg (2% product) and 500 to 600 mOsm/kg (4% product).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Pilocarpine hydrochloride is a direct acting cholinergic parasympathomimetic agent which acts through direct stimulation of muscarinic receptors and smooth muscle such as the iris and secretory glands. Pilocarpine contracts the ciliary muscle, causing increased tension on the scleral spur and opening of the trabecular meshwork spaces to facilitate outflow of aqueous humor. Outflow resistance is reduced, lowering intraocular pressure (IOP). Pilocarpine also produces miosis through contraction of the iris sphincter muscle. Miosis relieves appositional angle narrowing and closure, which lowers IOP in certain types of angle-closure glaucoma.

12.3 Pharmacokinetics

Systemic exposure to pilocarpine was evaluated in 14 healthy subjects administered 2 drops of pilocarpine hydrochloride ophthalmic solution 4% to both eyes four times daily for eight days. A comparison of C_{max} values on Days 5 and 8 indicated that pilocarpine concentrations in plasma reached steady-state following topical administration of pilocarpine hydrochloride ophthalmic solution 4%. The mean (SD) C_{max} and AUC_{0-last} values on Day 8 were 3.7 (3.2) ng/mL and 7.7 (8.4) ng×hour/mL, respectively. The T_{max} values on Day 8 ranged from 0.5 to 1 hour.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

There have been no long-term studies done using pilocarpine hydrochloride in animals to evaluate carcinogenic potential.

14 CLINICAL STUDIES

In clinical trials reported in the medical literature, pilocarpine ophthalmic solution reduced intraocular pressure (IOP) by 3 to 7 mmHg in patients with open-angle glaucoma. Pilocarpine ophthalmic solution has also been shown to be effective in the induction of miosis, in the prevention of postoperative elevated IOP, and in the management of acute angle-closure glaucoma.

16 HOW SUPPLIED/STORAGE AND HANDLING

Pilocarpine Hydrochloride Ophthalmic Solution, USP 1%, 2% and 4% is supplied sterile in white low density polyethylene plastic ophthalmic bottles and natural low density polyethylene tips with green polypropylene caps.

15 mL in 15 mL bottles

1% - NDC 17478-223-12

2% - NDC 17478-224-12

4% - NDC 17478-226-12

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

Keep tightly closed.

17 PATIENT COUNSELING INFORMATION

17.1 Avoiding Contamination of the Product

Do not touch dropper tip to any surface, as this may contaminate the contents.

17.2 Night Driving

Caution is advised with night driving and when hazardous activities are undertaken in poor illumination.

17.3 Accommodative Spasm

Pilocarpine hydrochloride ophthalmic solution may cause problems when changing focus between near objects and distant objects. Do not drive or use machinery if vision is not clear.

17.4 Contact Lens Wear

Contact lens should be removed prior to the instillation of pilocarpine hydrochloride ophthalmic solution. Wait 10 minutes after dosing before reinserting contact lenses.

17.5 Concomitant Topical Ocular Therapy

If more than one topical ophthalmic medication is being used, the medicines must be administered at least 5 minutes apart.

17.6 Systemic Exposure

To limit exposure to pilocarpine to the eye alone, close eyes gently and apply pressure with finger to the corner of eye by the nose for 2 minutes after instillation of pilocarpine hydrochloride ophthalmic solution.

Rx Only

AKORN

Manufactured by: **Akorn, Inc.**

Lake Forest, IL 60045

PC00N Rev. 10/17

Principal Display Panel Text for Container Label:

NDC 17478-223-12

Pilocarpine HCl

Ophthalmic

Solution, USP

1%

FOR USE IN THE

EYES ONLY

Eye Logo

Rx only

EXP	LOT	<p>Each mL contains: Active: Pilocarpine Hydrochloride 10 mg (1%). Preservative: Benzalkonium Chloride 0.1 mg (0.01%). Protect from freezing. Mfd. by: Akorn, Inc. Lake Forest, IL 60045</p> <p>PCAKL Rev. 03/17</p>	<p>NDC 17478-223-12</p> <p>Pilocarpine HCl Ophthalmic Solution, USP</p> <p style="background-color: #90EE90; padding: 5px; display: inline-block;">1%</p> <p>FOR USE IN THE EYES ONLY</p>  Rx only	<p>Sterile 15 mL Usual Dosage: One drop in the eye(s) up to four times daily. See package insert for dosage information.</p>
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Principal Display Panel Text for Carton Label:

NDC 17478-223-12

Pilocarpine

Hydrochloride

Ophthalmic

Solution, USP

1%

FOR USE IN THE

EYES ONLY

Eye Logo

Sterile

15 mL

Rx only Akorn Logo



Principal Display Panel Text for Container Label:

NDC 17478-224-12

Pilocarpine HCl

Ophthalmic

Solution, USP

2%

FOR USE IN THE
EYES ONLY
Eye Logo
Rx only

EXP. LOT

(01)00317478224129

Each mL contains:
Active: Pilocarpine Hydrochloride 20 mg (2%).
Preservative: Benzalkonium Chloride 0.1 mg (0.01%).
Protect from freezing.
Mfd. by: **Akorn, Inc.**
Lake Forest, IL 60045

PCBKL Rev. 03/17

NDC 17478-224-12

**Pilocarpine HCl
Ophthalmic
Solution, USP**

2%

**FOR USE IN THE
EYES ONLY**



R_x only

**Sterile
15 mL**
Usual Dosage: One drop in the eye(s) up to four times daily. See package insert for dosage information.

Principal Display Panel Text for Carton Label:

NDC 17478-224-12

Pilocarpine

Hydrochloride

Ophthalmic

Solution, USP

2%

FOR USE IN THE

EYES ONLY

Eye Logo

Sterile

15 mL

Rx only Akorn Logo



Principal Display Panel Text for Container Label:

NDC 17478-226-12

Pilocarpine HCl

Ophthalmic

Solution, USP

4%

FOR USE IN THE
EYES ONLY
Eye Logo
Rx only

EXP: LOT

(01)00317478226123

Each mL contains:
Active: Pilocarpine Hydrochloride 40 mg (4%).
Preservative: Benzalkonium Chloride 0.1 mg (0.01%).

Mfd. by: **Akorn, Inc.**
Lake Forest, IL 60045
PCCKL Rev. 03/17

NDC 17478-226-12

**Pilocarpine HCl
Ophthalmic
Solution, USP**

4%

**FOR USE IN THE
EYES ONLY**


Rx only

**Sterile
15 mL**
Usual Dosage: One drop in the eye(s) up to four times daily. See package insert for dosage information.
Protect from freezing.

Principal Display Panel Text for Carton Label:

NDC 17478-226-12

Pilocarpine

Hydrochloride

Ophthalmic

Solution, USP

4%

FOR USE IN THE

EYES ONLY

Eye Logo

Sterile

15 mL

Rx only Akorn Logo



PILOCARPINE HYDROCHLORIDE

pilocarpine hydrochloride solution/ drops

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:17478-223
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Pilocarpine Hydrochloride (UNII: 0 WW6D218 XJ) (Pilocarpine - UNII:0 1MI4Q9DI3)	Pilocarpine Hydrochloride	10 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
Hypromellose, Unspecified (UNII: 3NXW29 V3WO)	
Boric Acid (UNII: R57ZHV85D4)	
Sodium Chloride (UNII: 451W47IQ8 X)	
Sodium Citrate, Unspecified Form (UNII: 1Q73Q2JULR)	
Hydrochloric Acid (UNII: QTT17582CB)	
Sodium Hydroxide (UNII: 55X04QC32I)	
Water (UNII: 059QF0K00R)	
Benzalkonium Chloride (UNII: F5UM2KM3W7)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:17478-223-12	1 in 1 CARTON	09/28/2017	
1		15 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204398	09/28/2017	

PILOCARPINE HYDROCHLORIDE

pilocarpine hydrochloride solution/ drops

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:17478-224
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Pilocarpine Hydrochloride (UNII: 0 WW6D218 XJ) (Pilocarpine - UNII:0 1MI4Q9DI3)	Pilocarpine Hydrochloride	20 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
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Hypromellose, Unspecified (UNII: 3NXW29V3WO)
Boric Acid (UNII: R57ZHV85D4)
Sodium Citrate, Unspecified Form (UNII: 1Q73Q2JULR)
Hydrochloric Acid (UNII: QTT17582CB)
Sodium Hydroxide (UNII: 55X04QC32I)
Water (UNII: 059QF0KO0R)
Benzalkonium Chloride (UNII: F5UM2KM3W7)

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:17478-224-12	1 in 1 CARTON	09/28/2017	
1		15 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204398	09/28/2017	

PILOCARPINE HYDROCHLORIDE

pilocarpine hydrochloride solution/ drops

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:17478-226
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Pilocarpine Hydrochloride (UNII: 0WW6D218XJ) (Pilocarpine - UNII:01MI4Q9DI3)	Pilocarpine Hydrochloride	40 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
Hypromellose, Unspecified (UNII: 3NXW29V3WO)	
Boric Acid (UNII: R57ZHV85D4)	
Sodium Citrate, Unspecified Form (UNII: 1Q73Q2JULR)	
Hydrochloric Acid (UNII: QTT17582CB)	
Sodium Hydroxide (UNII: 55X04QC32I)	
Water (UNII: 059QF0KO0R)	
Benzalkonium Chloride (UNII: F5UM2KM3W7)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:17478-226-12	1 in 1 CARTON	09/28/2017	
1		15 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA204398	09/28/2017	

Labeler - Akorn, Inc. (117696770)**Registrant** - Akorn Operating Company LLC (117693100)**Establishment**

Name	Address	ID/FEI	Business Operations
Akorn, Inc.		117696790	PACK(17478-223, 17478-224, 17478-226) , LABEL(17478-223, 17478-224, 17478-226)

Establishment

Name	Address	ID/FEI	Business Operations
Akorn, Inc.		117696832	MANUFACTURE(17478-223, 17478-224, 17478-226) , ANALYSIS(17478-223, 17478-224, 17478-226) , STERILIZE(17478-223, 17478-224, 17478-226)

Revised: 10/2020

Akorn, Inc.