

## ACYCLOVIR- acyclovir ointment Aryeh Pharma Corp

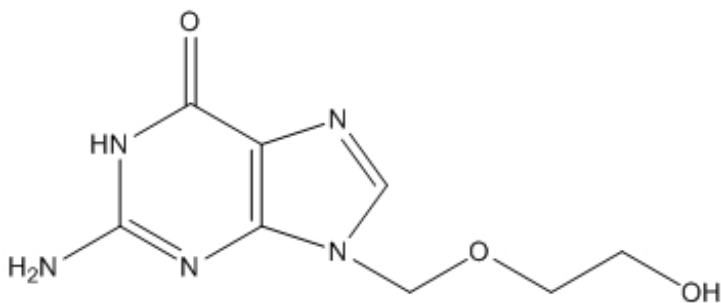
### ACYCLOVIR OINTMENT, USP 5%

Rx  
only

#### DESCRIPTION

Acyclovir Ointment, USP is a synthetic nucleoside analogue active against herpes viruses. Acyclovir Ointment 5% is a formulation for topical administration. Each gram of Acyclovir Ointment 5% contains 50 mg of acyclovir in a polyethylene glycol (PEG) base.

Acyclovir, USP is a white to off-white, crystalline powder with the molecular formula  $C_8H_{11}N_5O_3$  and a molecular weight of 225. The maximum solubility in water at 37°C is 2.5 mg/mL. The pKa's of acyclovir are 2.27 and 9.25. The chemical name of acyclovir is 9-[(2-Hydroxyethoxy) methyl]guanine; it has the following structural formula:



#### VIROLOGY

##### Mechanism of Antiviral Action

Acyclovir is a synthetic purine nucleoside analogue with *in vitro* and *in vivo* inhibitory activity against herpes simplex virus types 1 (HSV-1), 2 (HSV-2) and varicella-zoster virus (VZV).

The inhibitory activity of acyclovir is highly selective due to its affinity for the enzyme thymidine kinase (TK) encoded by HSV and VZV. This viral enzyme converts acyclovir into acyclovir monophosphate, a nucleotide analogue. The monophosphate is further converted into diphosphate by cellular guanylate kinase and into triphosphate by a number of cellular enzymes. *In vitro*, acyclovir triphosphate stops replication of herpes viral DNA. This is accomplished in 3 ways: 1) competitive inhibition of viral DNA polymerase, 2) incorporation into and termination of the growing viral DNA chain and 3) inactivation of the viral DNA polymerase. The greater antiviral activity of acyclovir against HSV compared to VZV is due to its more efficient phosphorylation by the viral TK.

##### Antiviral Activities

The quantitative relationship between the *in vitro* susceptibility of herpes viruses to antivirals and the clinical response to therapy has not been established in humans and virus sensitivity testing has not been standardized. Sensitivity testing results, expressed as the concentration of drug required to inhibit by 50% the growth of virus in cell culture (IC<sub>50</sub>), vary greatly depending upon a number of factors. Using plaque-reduction assays, the IC<sub>50</sub> against herpes simplex virus isolates ranges from 0.02 to 13.5 mcg/mL for HSV-1 and from 0.01 to 9.9 mcg/mL for HSV-2. The IC<sub>50</sub> for acyclovir against most laboratory strains and clinical isolates of VZV ranges from 0.12 to 10.8 mcg/mL. Acyclovir also demonstrates activity against the Oka vaccine strain of VZV with a mean IC<sub>50</sub> of 1.35 mcg/mL.

## **Drug Resistance**

Resistance of HSV and VZV to acyclovir can result from qualitative and quantitative changes in the viral TK and/or DNA polymerase. Clinical isolates of HSV and VZV with reduced susceptibility to acyclovir have been recovered from immunocompromised patients, especially with advanced HIV infection. While most of the acyclovir-resistant mutants isolated thus far from immunocompromised patients have been found to be TK-deficient mutants, other mutants involving the viral TK gene (TK partial and TK altered) and DNA polymerase have been isolated. TK-negative mutants may cause severe disease in infants and immunocompromised adults. The possibility of viral resistance to acyclovir should be considered in patients who show poor clinical response during therapy.

## **CLINICAL PHARMACOLOGY**

Two clinical pharmacology studies were performed with acyclovir ointment 5% in immunocompromised adults at risk of developing mucocutaneous herpes simplex virus infections or with localized varicella-zoster infections. These studies were designed to evaluate the dermal tolerance, systemic toxicity and percutaneous absorption of acyclovir.

In 1 of these studies, which included 16 inpatients, the complete ointment or its vehicle were randomly administered in a dose of 1 -cm strips (25 mg acyclovir) 4 times a day for 7 days to an intact skin surface area of 4.5 square inches. No local intolerance, systemic toxicity or contact dermatitis were observed. In addition, no drug was detected in blood and urine by radioimmunoassay (sensitivity, 0.01 mcg/mL).

The other study included 11 patients with localized varicella-zoster infections. In this uncontrolled study, acyclovir was detected in the blood of nine patients and in the urine of all patients tested. Acyclovir levels in plasma ranged from < 0.01 to 0.28 mcg/mL in eight patients with normal renal function, and from < 0.01 to 0.78 mcg/mL in one patient with impaired renal function. Acyclovir excreted in the urine ranged from < 0.02% to 9.4% of the daily dose. Therefore, systemic absorption of acyclovir after topical application is minimal.

## **CLINICAL TRIALS**

In clinical trials of initial genital herpes infections, acyclovir ointment 5% has shown a decrease in healing time and, in some cases, a decrease in duration of viral shedding and duration of pain. In studies in immunocompromised patients mainly with herpes labialis,

there was a decrease in duration of viral shedding and a slight decrease in duration of pain.

In studies of recurrent genital herpes and of herpes labialis in non-immunocompromised patients, there was no evidence of clinical benefit; there was some decrease in duration of viral shedding.

## **INDICATIONS AND USAGE**

Acyclovir ointment 5% is indicated in the management of initial genital herpes and in limited non-life threatening mucocutaneous Herpes simplex virus infections in immunocompromised patients.

## **CONTRAINDICATIONS**

Acyclovir ointment 5% is contraindicated in patients who develop hypersensitivity to the components of the formulation.

## **WARNINGS**

Acyclovir ointment 5% is intended for cutaneous use only and should not be used in the eye.

## **PRECAUTIONS**

### **General**

The recommended dosage, frequency of applications and length of treatment should not be exceeded (see DOSAGE AND ADMINISTRATION). There are no data to support the use of acyclovir ointment 5% to prevent transmission of infection to other persons or prevent recurrent infections when applied in the absence of signs and symptoms. Acyclovir ointment 5% should not be used for the prevention of recurrent HSV infections. Although clinically significant viral resistance associated with the use of acyclovir ointment 5% has not been observed, this possibility exists.

### **Drug Interactions**

Clinical experience has identified no interactions resulting from topical or systemic administration of other drugs concomitantly with acyclovir ointment 5%.

### **Carcinogenesis, Mutagenesis, Impairment of Fertility**

Systemic exposure following topical administration of acyclovir is minimal. Dermal carcinogenicity studies were not conducted. Results from the studies of carcinogenesis, mutagenesis and fertility are not included in the full prescribing information for acyclovir ointment 5% due to the minimal exposures of acyclovir that result from dermal application. Information on these studies is available in the full prescribing information for acyclovir capsules, tablets and suspension and acyclovir for injection.

### **Pregnancy**

## Teratogenic Effects: *Pregnancy Category B.*

Acyclovir was not teratogenic in the mouse, rabbit or rat at exposures greatly in excess of human exposure. There are no adequate and well controlled studies of systemic acyclovir in pregnant women. A prospective epidemiologic registry of acyclovir use during pregnancy was established in 1984 and completed in April 1999. There were 749 pregnancies followed in women exposed to systemic acyclovir during the first trimester of pregnancy resulting in 756 outcomes. The occurrence rate of birth defects approximates that found in the general population. However, the small size of the registry is insufficient to evaluate the risk for less common defects or to permit reliable or definitive conclusions regarding the safety of acyclovir in pregnant women and their developing fetuses. Systemic acyclovir should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

## **Nursing Mothers**

It is not known whether topically applied acyclovir is excreted in breast milk. Systemic exposure following topical administration is minimal. After oral administration of acyclovir, acyclovir concentrations have been documented in breast milk in two women and ranged from 0.6 to 4.1 times the corresponding plasma levels. These concentrations would potentially expose the nursing infant to a dose of acyclovir up to 0.3 mg/kg per day. Nursing mothers who have active herpetic lesions near or on the breast should avoid nursing.

## **Geriatric Use**

Clinical studies of acyclovir ointment did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. Systemic absorption of acyclovir after topical administration is minimal (see CLINICAL PHARMACOLOGY).

## **Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

## **ADVERSE REACTIONS**

In the controlled clinical trials, mild pain (including transient burning and stinging) was reported by about 30% of patients in both the active and placebo arms; treatment was discontinued in two of these patients. Local pruritus occurred in 4% of these patients. In all studies, there was no significant difference between the drug and placebo group in the rate or type of reported adverse reactions nor were there any differences in abnormal clinical laboratory findings.

## **Observed During Clinical Practice**

Based on clinical practice experience in patients treated with acyclovir ointment in the U.S., spontaneously reported adverse events are uncommon. Data are insufficient to support an estimate of their incidence or to establish causation. These events may also occur as part of the underlying disease process. Voluntary reports of adverse events

that have been received since market introduction include:

**General:**Edema and/or pain at the application site.

**Skin:**Pruritus, rash.

## **OVERDOSAGE**

Overdosage by topical application of acyclovir ointment 5% is unlikely because of limited transcutaneous absorption (see CLINICAL PHARMACOLOGY).

## **DOSAGE AND ADMINISTRATION**

Apply sufficient quantity to adequately cover all lesions every 3 hours, 6 times per day for 7 days. The dose size per application will vary depending upon the total lesion area but should approximate a one-half inch ribbon of ointment per 4 square inches of surface area. A finger cot or rubber glove should be used when applying acyclovir ointment to prevent autoinoculation of other body sites and transmission of infection to other persons. **Therapy should be initiated as early as possible following onset of signs and symptoms.**

## **HOW SUPPLIED**

Each gram of Acyclovir Ointment USP, 5% contains acyclovir USP, 50 mg in a polyethylene glycol base. Acyclovir Ointment USP, 5% is an opaque white to off-white ointment available as follows:

85957-036-01

carton of two 5 g tube

85957-036-02

carton of one 15 g tube

85957-036-03

carton of one 30 g tube

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

**Store in a dry place.**



Manufactured for:  
**Aryeh Pharma Corp**

185 Hudson St, Suite 2500  
Jersey City  
NJ - NEW JERSEY  
07311  
US - UNITED STATES OF AMERICA

Manufactured by:  
**Quagen Pharma, LLC**  
34 Fairfield Pl  
West Caldwell, NJ 07006-6209  
United States

APRIL 2026  
ACYCO:RX

**PRINCIPAL DISPLAY PANEL - 5%**

**NDC 85957-036-01**

**Rx only**

**Acyclovir  
Ointment, USP**

**5%**

**5 g**

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.

**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days.  
See prescribing information for dosage information.

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

**Store in a dry place.**

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NDC 85957-036-01

**Acyclovir 5%**

Ointment, USP

5 g

Rx Only



NDC 85957-036-01

**Acyclovir 5%**

Ointment, USP

5 g

Rx Only



NDC 85957-036-01

**Acyclovir 5%**  
Ointment, USP

Space for  
Pharmacoce

NDC 85957-036-01

**Acyclovir 5%**

Ointment, USP


5 g

Space for  
Barcode

0700066209

**NVZ Area**  
30 x 20 mm

Space for  
Pharmacoce

Mfg. Lic. No.:  
 Manufactured by: **Quagen Pharma, LLC**  
 34 Farfield Pl West Caldwell,  
 NJ 07006-6209 United States  
 Manufactured for: **Aryeh Pharma Corp**  
 185 Hudson St, Suite 2500  
 Jersey City, NJ - NEW JERSEY 07311  
 US - UNITED STATES OF AMERICA  
  
 Each gram contains acyclovir, USP 50 mg  
 in a polyethylene glycol base.  
**Usual Dosage:** Apply 6 times a day  
 (every 3 hours) for 7 days.  
 See prescribing information for dosage information.  
 [See USP Controlled Room Temperature.]  
 Store at 20° to 25°C (68° to 77°F).  
 Store in a dry place.

Size: 95 x 20 x 30 mm

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.  
**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days.  
See prescribing information for dosage information.  
Store at 20° to 25°C (68° to 77°F).  
[See USP Controlled Room Temperature.]  
Store in a dry place.

Mfg. Ltr. No:  
Manufactured by: Oganin Pharma, LLC  
20 Parkway Pl, West Caldwell, NJ 07090  
Manufactured for: Aryeh Pharma Corp  
100 Hudson St, Suite 3000  
Jersey City, NJ 07310  
US - UNITED STATES OF AMERICA  


NDC 85957-036-01

Rx Only

**Acyclovir 5%**  
Ointment, USP

**NVZ**  
**65 x 25 mm**

**2 Pack (5 g Each)**



NDC 85957-036-01

**Acyclovir 5%**  
Ointment, USP

Space for  
Barcode

OPHUMCYCORRECT

**2 Pack (5 g Each)**



**Acyclovir 5%**  
Ointment, USP

Rx Only

NDC 85957-036-01

Size: 100 x 25 x 65 mm

NDC 85957-036-01  
**Acyclovir 5%**  
Ointment, USP

Space for  
Pharmacist

Space for  
Pharmacist

NDC 85957-036-01 Rx Only

**Acyclovir 5%**  
Ointment, USP

**5 g**

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.

**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days. See prescribing information for dosage information.

See crimp of tube for lot number and expiration date.

**Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]**  
**Store in a dry place.**

Mfg. Lic. No.:

Manufactured by: **Quagen Pharma, LLC**  
34 Fairfield Pl West Caldwell, NJ 07006-6209 United States

Manufactured for: **Aryeh Pharma Corp**  
185 Hudson St, Suite 2500  
Jersey City NJ - NEW JERSEY 07311  
US - UNITED STATES OF AMERICA

**ARYEH PHARMACEUTICALS**

**ARYEH PHARMACEUTICALS**

OPKUACYCXUSIT

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**NDC 85957-036-02**

**Rx only**

**Acyclovir  
Ointment, USP**

**5%**

**15 g**

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.

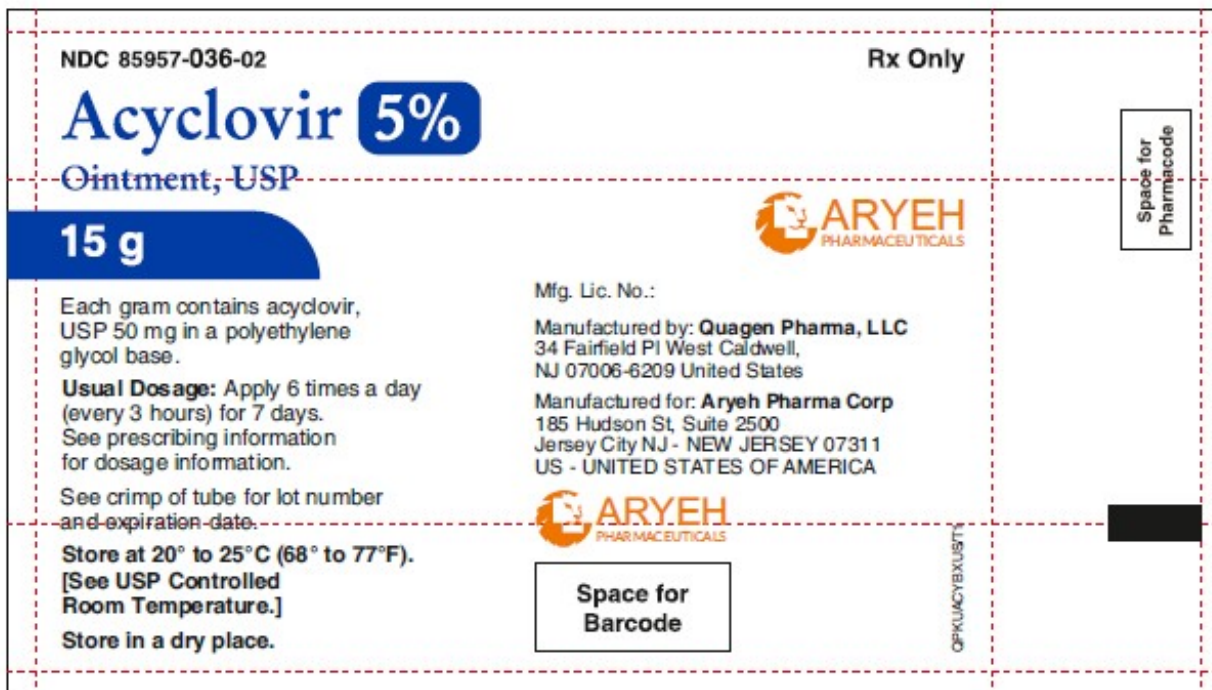
**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days. See prescribing information for dosage information.

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

**Store in a dry place.**

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07311

US - UNITED STATES OF AMERICA



Do not print dotted line

**NDC 85957-036-03**

**Rx only**

**Acyclovir  
Ointment, USP  
5%  
30 g**

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.

**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days.  
See prescribing information for dosage information.

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

**Store in a dry place.**

Manufactured for:

**Aryeh Pharma Corp**

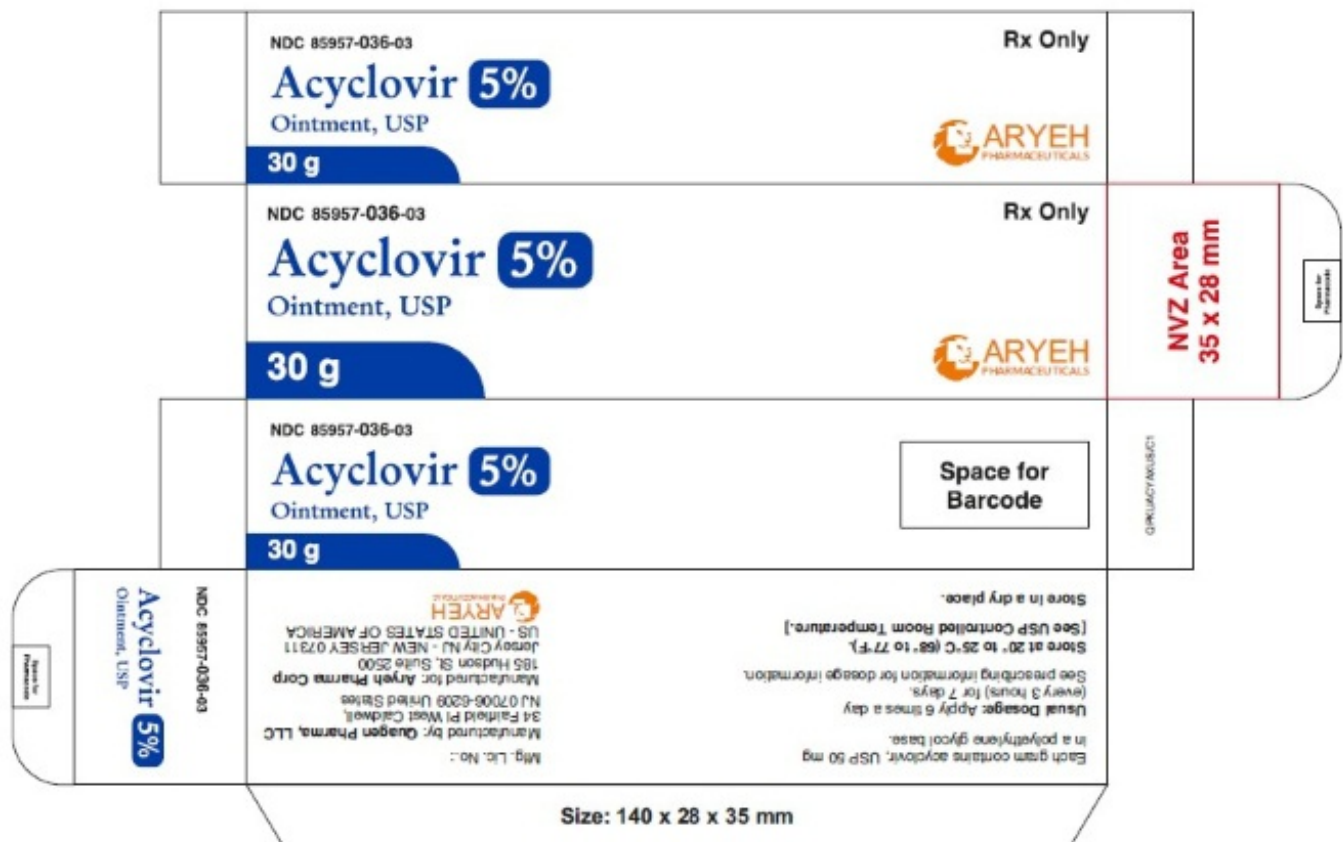
185 Hudson St, Suite 2500

Jersey City

NJ - NEW JERSEY

07311

US - UNITED STATES OF AMERICA



NDC 85957-036-03

Rx Only

**Acyclovir** **5%**  
Ointment, USP

**30 g**

Each gram contains acyclovir, USP 50 mg in a polyethylene glycol base.

**Usual Dosage:** Apply 6 times a day (every 3 hours) for 7 days. See prescribing information for dosage information.

See crimp of tube for lot number and expiration date.

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

Store in a dry place.

Mfg. Lic. No.:

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US - UNITED STATES OF AMERICA



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**ACYCLOVIR**

acyclovir ointment

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:85957-036
<b>Route of Administration</b>	TOPICAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
<b>ACYCLOVIR</b> (UNII: X4HES1O11F) (ACYCLOVIR - UNII:X4HES1O11F)	ACYCLOVIR	50 mg in 1 g

**Inactive Ingredients**

Ingredient Name	Strength
<b>POLYETHYLENE GLYCOL, UNSPECIFIED</b> (UNII: 3WJQ0SDW1A)	

**Product Characteristics**

<b>Color</b>	white (opaque white to off-white)	<b>Score</b>	
<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>		<b>Imprint Code</b>	
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:85957-036-01	2 in 1 CARTON	04/10/2026	
1		5 g in 1 TUBE; Type 0: Not a Combination Product		
2	NDC:85957-036-02	1 in 1 CARTON	04/10/2026	
2		15 g in 1 TUBE; Type 0: Not a Combination Product		
3	NDC:85957-036-03	1 in 1 CARTON	04/10/2026	
3		30 g in 1 TUBE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202459	04/10/2026	

**Labeler** - Aryeh Pharma Corp (136950666)

**Registrant** - Aryeh Pharma corp (136950666)

## Establishment

Name	Address	ID/FEI	Business Operations
QUAGEN PHARMACEUTICALS LLC		081343942	manufacture(85957-036) , pack(85957-036)

Revised: 5/2026

Aryeh Pharma Corp