

**FLUCYTOSINE- flucytosine capsule**  
**American Health Packaging**

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**Flucytosine Capsules, USP**  
**Rx Only**  
**8459901/0822F**

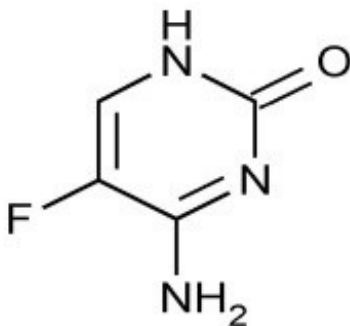
**WARNING**

**Use with extreme caution in patients with impaired renal function. Close monitoring of hematologic, renal and hepatic status of all patients is essential. These instructions should be thoroughly reviewed before administration of flucytosine.**

**DESCRIPTION**

Flucytosine Capsules USP, an antifungal agent, is available as 250 mg and 500 mg capsules for oral administration. In addition to the active ingredient of flucytosine USP, each capsule contains anhydrous lactose, gelatin, iron oxide black, potassium hydroxide, potato starch, shellac, silicon dioxide, talc and titanium dioxide. In addition, the 250 mg capsule shell contains D&C yellow 10, FD&C blue 1 and FD&C yellow 6.

Chemically, flucytosine is 5-fluorocytosine, a fluorinated pyrimidine which is related to fluorouracil and floxuridine. It is a white or almost white crystalline powder with a molecular weight of 129.09 and the following structural formula:



**CLINICAL PHARMACOLOGY**

Flucytosine is rapidly and virtually completely absorbed following oral administration. Flucytosine is not metabolized significantly when given orally to man. Bioavailability estimated by comparing the area under the curve of serum concentrations after oral and intravenous administration showed 78% to 89% absorption of the oral dose. Peak serum concentrations of 30 to 40 mcg/mL were reached within 2 hours of administration of a 2 g oral dose to normal subjects. Other studies revealed mean serum concentrations of approximately 70 to 80 mcg/mL 1 to 2 hours after a dose in patients with normal renal function receiving a 6-week regimen of flucytosine (150 mg/kg/day given in divided doses every 6 hours) in combination with amphotericin B. The half-life in

the majority of healthy subjects ranged between 2.4 and 4.8 hours. Flucytosine is excreted via the kidneys by means of glomerular filtration without significant tubular reabsorption. More than 90% of the total radioactivity after oral administration was recovered in the urine as intact drug. Flucytosine is deaminated (probably by gut bacteria) to 5-fluorouracil. The area under the curve (AUC) ratio of 5-fluorouracil to flucytosine is 4%. Approximately 1% of the dose is present in the urine as the  $\alpha$ -fluoro- $\beta$ -ureido-propionic acid metabolite. A small portion of the dose is excreted in the feces.

The half-life of flucytosine is prolonged in patients with renal insufficiency; the average half-life in nephrectomized or anuric patients was 85 hours (range: 29.9 to 250 hours). A linear correlation was found between the elimination rate constant of flucytosine and creatinine clearance.

*In vitro* studies have shown that 2.9% to 4% of flucytosine is protein-bound over the range of therapeutic concentrations found in the blood. Flucytosine readily penetrates the blood-brain barrier, achieving clinically significant concentrations in cerebrospinal fluid.

### **Pharmacokinetics in Pediatric Patients**

Limited data are available regarding the pharmacokinetics of flucytosine administered to neonatal patients being treated for systemic candidiasis. After five days of continuous therapy, median peak levels in infants were 19.6 mcg/mL, 27.7 mcg/mL, and 83.9 mcg/mL at doses of 25 mg/kg (N=3), 50 mg/kg (N=4), and 100 mg/kg (N=3), respectively. Mean time to peak serum levels was of  $2.5 \pm 1.3$  hours, similar to that observed in adult patients. A good deal of interindividual variability was noted, which did not correlate with gestational age. Some patients had serum levels > 100 mcg/mL, suggesting a need for drug level monitoring during therapy. In another study, serum concentrations were determined during flucytosine therapy in two patients (total assays performed =10). Median serum flucytosine concentrations at steady state were calculated to be  $57 \pm 10$  mcg/mL (doses of 50 to 125 mg/kg/day, normalized to 25 mg/kg per dose for comparison). In three infants receiving flucytosine 25 mg/kg/day (four divided doses), a median flucytosine half-life of 7.4 hours was observed, approximately double that seen in adult patients. The concentration of flucytosine in the cerebrospinal fluid of one infant was 43 mcg/mL 3 hours after a 25 mg oral dose, and ranged from 20 to 67 mg/L in another neonate receiving oral doses of 120 to 150 mg/kg/day.

## **MICROBIOLOGY**

### **Mechanism of Action**

Flucytosine is taken up by fungal organisms via the enzyme cytosine permease. Inside the fungal cell, flucytosine is rapidly converted to fluorouracil by the enzyme cytosine deaminase. Fluorouracil exerts its antifungal activity through the subsequent conversion into several active metabolites, which inhibit protein synthesis by being falsely incorporated into fungal RNA or interfere with the biosynthesis of fungal DNA through the inhibition of the enzyme thymidylate synthetase.

### **Activity *In Vitro***

Flucytosine has been shown to be active against most strains of the following microorganisms **both *in vitro* and in clinical infections.**

*Candida albicans*

*Cryptococcus neoformans*

### Susceptibility Testing

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see: <https://www.fda.gov/STIC>.

### **Drug Resistance**

Flucytosine resistance may arise from a mutation of an enzyme necessary for the cellular uptake or metabolism of flucytosine or from an increased synthesis of pyrimidines, which compete with the active metabolites of flucytosine (fluorinated antimetabolites). Resistance to flucytosine has been shown to develop during monotherapy after prolonged exposure to the drug.

### **Drug Combination**

Antifungal synergism between flucytosine and polyene antibiotics, particularly amphotericin B has been reported *in vitro*. Flucytosine is usually administered in combination with amphotericin B due to lack of cross-resistance and reported synergistic activity of both drugs.

## **INDICATIONS AND USAGE**

Flucytosine capsules are indicated only in the treatment of serious infections caused by susceptible strains of *Candida* and/or *Cryptococcus*.

*Candida*: Septicemia, endocarditis and urinary system infections have been effectively treated with flucytosine. Limited trials in pulmonary infections justify the use of flucytosine.

*Cryptococcus*: Meningitis and pulmonary infections have been treated effectively. Studies in septicemias and urinary tract infections are limited, but good responses have been reported.

Flucytosine capsules should be used in combination with amphotericin B for the treatment of systemic candidiasis and cryptococcosis because of the emergence of resistance to flucytosine (see **MICROBIOLOGY**).

## **CONTRAINDICATIONS**

Flucytosine capsules are contraindicated in patients with a known hypersensitivity to the drug.

Flucytosine capsules are contraindicated in patients with known complete dihydropyrimidine dehydrogenase (DPD) enzyme deficiency (see **WARNINGS**).

## **WARNINGS**

Flucytosine must be given with extreme caution to patients with impaired renal function. Since flucytosine is excreted primarily by the kidneys, renal impairment may lead to accumulation of the drug. Flucytosine serum concentrations should be monitored to determine the adequacy of renal excretion in such patients. Dosage adjustments should be made in patients with renal insufficiency to prevent progressive accumulation of active drug.

Flucytosine must be given with extreme caution to patients with bone marrow depression. Patients may be more prone to depression of bone marrow function if they: 1) have a hematologic disease, 2) are being treated with radiation or drugs which depress bone marrow, or 3) have a history of treatment with such drugs or radiation. Bone marrow toxicity can be irreversible and may lead to death in immunosuppressed patients. Frequent monitoring of hepatic function and of the hematopoietic system is indicated during therapy.

5-Fluorouracil is a metabolite of flucytosine. Dihydropyrimidine dehydrogenase is a key enzyme involved in the metabolism and elimination of 5-fluorouracil. Therefore, the risk of severe drug toxicity is increased when flucytosine is used in individuals with deficiency in DPD. Possible drug toxicities include mucositis, diarrhea, neutropenia, and neurotoxicity. Determination of DPD activity may be considered where drug toxicity is confirmed or suspected. In the event of suspected drug toxicity, consider stopping flucytosine treatment.

## **PRECAUTIONS**

### **General**

Before therapy with flucytosine is instituted, electrolytes (because of hypokalemia) and the hematologic and renal status of the patient should be determined (see **WARNINGS**). Close monitoring of the patient during therapy is essential.

### **Laboratory Tests**

Since renal impairment can cause progressive accumulation of the drug, blood concentrations and kidney function should be monitored during therapy. Hematologic status (leukocyte and thrombocyte count) and liver function (alkaline phosphatase, SGOT and SGPT) should be determined at frequent intervals during treatment as indicated.

### **Drug Interactions**

Cytosine arabinoside, a cytostatic agent, has been reported to inactivate the antifungal activity of flucytosine by competitive inhibition. Drugs which impair glomerular filtration may prolong the biological half-life of flucytosine.

### **Drug/Laboratory Test Interactions**

Measurement of serum creatinine levels should be determined by the Jaffé reaction, since flucytosine do not interfere with the determination of creatinine values by this method. Most automated equipment for measurement of creatinine makes use of the Jaffé reaction.

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

Flucytosine has not undergone adequate animal testing to evaluate carcinogenic potential. The mutagenic potential of flucytosine was evaluated in Ames-type studies with five different mutants of *S. typhimurium* and no mutagenicity was detected in the presence or absence of activating enzymes. Flucytosine was nonmutagenic in three different repair assay systems (i.e., rec, uvr and pol).

There have been no adequate trials in animals on the effects of flucytosine on fertility or reproductive performance. The fertility and reproductive performance of the offspring (F1 generation) of mice treated with 100 mg/kg/day (345 mg/m<sup>2</sup>/day or 0.059 times the human dose), 200 mg/kg/day (690 mg/m<sup>2</sup>/day or 0.118 times the human dose) or 400 mg/kg/day (1380 mg/m<sup>2</sup>/day or 0.236 times the human dose) of flucytosine on days 7 to 13 of gestation was studied; the in utero treatment had no adverse effect on the fertility or reproductive performance of the offspring.

## **Pregnancy**

### Teratogenic Effects

Flucytosine was shown to be teratogenic (vertebral fusions) in the rat at doses of 40 mg/kg/day (298 mg/m<sup>2</sup>/day or 0.051 times the human dose) administered on days 7 to 13 of gestation. At higher doses (700 mg/kg/day; 5208 mg/m<sup>2</sup>/day or 0.89 times the human dose administered on days 9 to 12 of gestation), cleft lip and palate and micrognathia were reported. Flucytosine was not teratogenic in rabbits up to a dose of 100 mg/kg/day (1423 mg/m<sup>2</sup>/day or 0.243 times the human dose) administered on days 6 to 18 of gestation. In mice, 400 mg/kg/day of flucytosine (1380 mg/m<sup>2</sup>/day or 0.236 times the human dose) administered on days 7 to 13 of gestation was associated with a low incidence of cleft palate that was not statistically significant. Studies in pregnant rats have shown that flucytosine injected intraperitoneally crosses the placental barrier. There are no adequate and well-controlled studies in pregnant women. Flucytosine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

## **Nursing Mothers**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from flucytosine, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

## **Pediatric Use**

The efficacy and safety of flucytosine has not been systematically studied in pediatric patients. A small number of neonates have been treated with 25 to 200 mg/kg/day of flucytosine, with and without the addition of amphotericin B, for systemic candidiasis. No unexpected adverse reactions were reported in these patients. It should be noted, however, that hypokalemia and acidemia were reported in one patient who received flucytosine in combination with amphotericin B, and anemia was observed in a second patient who received flucytosine alone. Transient thrombocytopenia was noted in two additional patients, one of whom also received amphotericin B.

## **ADVERSE REACTIONS**

The adverse reactions which have occurred during treatment with flucytosine is grouped according to organ system affected.

*Cardiovascular:* Cardiac arrest, myocardial toxicity, ventricular dysfunction.

*Respiratory:* Respiratory arrest, chest pain, dyspnea.

*Dermatologic:* Rash, pruritus, urticaria, photosensitivity.

*Gastrointestinal:* Nausea, emesis, abdominal pain, diarrhea, anorexia, dry mouth, duodenal ulcer, gastrointestinal hemorrhage, acute hepatic injury including hepatic necrosis with possible fatal outcome in debilitated patients, hepatic dysfunction, jaundice, ulcerative colitis, enterocolitis, bilirubin elevation, increased hepatic enzymes.

*Genitourinary:* Azotemia, creatinine and BUN elevation, crystalluria, renal failure.

*Hematologic:* Anemia, agranulocytosis, aplastic anemia, eosinophilia, leukopenia, pancytopenia, thrombocytopenia, and fatal cases of bone marrow aplasia.

*Neurologic:* Ataxia, hearing loss, headache, paresthesia, parkinsonism, peripheral neuropathy, pyrexia, vertigo, sedation, convulsions.

*Psychiatric:* Confusion, hallucinations, psychosis.

*Miscellaneous:* Fatigue, hypoglycemia, hypokalemia, weakness, allergic reactions, Lyell's syndrome.

**To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc. at 1-866-850-2876 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

## **OVERDOSAGE**

There is no experience with intentional overdosage. It is reasonable to expect that overdosage may produce pronounced manifestations of the known clinical adverse reactions. Prolonged serum concentrations in excess of 100 mcg/mL may be associated with an increased incidence of toxicity, especially gastrointestinal (diarrhea, nausea, vomiting), hematologic (leukopenia, thrombocytopenia) and hepatic (hepatitis).

In the management of overdosage, prompt gastric lavage or the use of an emetic is recommended. Adequate fluid intake should be maintained, by the intravenous route if necessary, since flucytosine is excreted unchanged via the renal tract. The hematologic parameters should be monitored frequently; liver and kidney function should be carefully monitored. Should any abnormalities appear in any of these parameters, appropriate therapeutic measures should be instituted.

Since hemodialysis has been shown to rapidly reduce serum concentrations in anuric patients, this method may be considered in the management of overdosage.

## **DOSAGE AND ADMINISTRATION**

The usual dosage of flucytosine capsules are 50 to 150 mg/kg/day administered in divided doses at 6-hour intervals. Nausea or vomiting may be reduced or avoided if the capsules are given a few at a time over a 15-minute period. If the BUN or the serum creatinine is elevated, or if there are other signs of renal impairment, the initial dose should be at the lower level (see **WARNINGS**).

Flucytosine capsules should be used in combination with amphotericin B for the treatment of systemic candidiasis and cryptococcosis because of the emergence of resistance to flucytosine (see **MICROBIOLOGY**).

## **HOW SUPPLIED**

**Flucytosine Capsules, USP 250 mg** are grey opaque cap and green opaque body size '2' hard gelatin capsules, imprinted FLU on cap and 250 on body filled with white to off white powder.

Unit dose packages of 30 (3 x 10) NDC 60687-599-21

**Flucytosine Capsules, USP 500 mg** are grey opaque cap and white opaque body size '0' hard gelatin capsules, imprinted FLU on cap and 500 on body filled with white to off white powder.

Unit dose packages of 30 (3 x 10) NDC 60687-610-21

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

**FOR YOUR PROTECTION:** Do not use if blister is torn or broken

## **PACKAGING INFORMATION**

American Health Packaging unit dose blisters (see How Supplied section) contain drug product from Aurobindo Pharma USA, Inc. as follows:

(250 mg / 30 UD) NDC 60687-599-21 packaged from NDC 59651-331

(500 mg / 30 UD) NDC 60687-610-21 packaged from NDC 59651-332

Distributed by:

**American Health Packaging**

Columbus, OH 43217

**8459901/0822F**

**Package/Label Display Panel - Carton - 250 mg**

NDC 60687-599-21

# Flucytosine

Capsules, USP

**250 mg**

30 Capsules (3 x 10)

Rx Only



NDC 60687-599-21

# Flucytosine

Capsules, USP

**250 mg**

30 Capsules (3 x 10)

Rx Only

**Each Capsule Contains:**

Flucytosine USP..... 250 mg

**Usual Dosage:** See package insert for full prescribing information.

**Store** at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

**Keep this and all drugs out of reach of children.**

**FOR YOUR PROTECTION:** Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 59651-331, Aurobindo Pharma USA, Inc.

Distributed by:  
American Health Packaging  
Columbus, Ohio 43217

759921  
0459901/0121

NDC 60687- 599-21

## Flucytosine

Capsules, USP

**250 mg**

**30 Capsules (3 x 10)**

**Rx Only**

**Each Capsule Contains:**

Flucytosine USP..... 250 mg

**Usual Dosage:** See package insert for full prescribing information.

**Store** at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

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American Health Packaging  
Columbus, Ohio 43217

759921  
0459901/0121


### Package/Label Display Panel - Blister - 250 mg

Flucytosine  
Capsule, USP  
250 mg  
  
(01) 003 60687 599 11 3  
American Health Packaging, Columbus, Ohio 43217

Expiry: xxxxx  
Lot: xxxxxxx

Expiry: xxxxx  
Lot: xxxxxxx

Flucytosine  
Capsule, USP  
250 mg  
  
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American Health Packaging, Columbus, Ohio 43217

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Flucytosine  
Capsule, USP  
250 mg  
  
(01) 003 60687 599 11 3  
American Health Packaging, Columbus, Ohio 43217

Flucytosine  
Capsule, USP  
**250 mg**

### Package/Label Display Panel - Carton - 500 mg

NDC 60687-610-21

# Flucytosine

Capsules, USP

**500 mg**

30 Capsules (3 x 10)

Rx Only



NDC 60687-610-21

# Flucytosine

Capsules, USP

**500 mg**

**30 Capsules (3 x 10)**

Rx Only

**Each Capsule Contains:**

Flucytosine USP..... 500 mg

**Usual Dosage:** See package insert for full prescribing information.

**Store** at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

**Keep this and all drugs out of reach of children.**

**FOR YOUR PROTECTION:** Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 59651-332, Aurobindo Pharma USA, Inc.

Distributed by:  
American Health Packaging  
Columbus, Ohio 43217

761021  
0461021/0121

NDC 60687- 610-21

## Flucytosine

Capsules, USP

**500 mg**

**30 Capsules (3 x 10)**

**Rx Only**

**Each Capsule Contains:**

Flucytosine USP..... 500 mg

**Usual Dosage:** See package insert for full prescribing information.

**Store** at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

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Distributed by:  
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Columbus, Ohio 43217

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0461021/0121

## Package/Label Display Panel - Blister - 500 mg

Flucytosine  
Capsule, USP  
500 mg  
  
(01) 003 60687 610 11 5  
American Health Packaging, Columbus, Ohio 43217

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Flucytosine  
Capsule, USP  
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(01) 003 60687 610 11 5  
American Health Packaging, Columbus, Ohio 43217

Flucytosine  
Capsule, USP  
500 mg

## FLUCYTOSINE

flucytosine capsule

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:60687-599(NDC:59651-331)
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
FLUCYTOSINE (UNII: D83282DT06) (FLUCYTOSINE - UNII:D83282DT06)	FLUCYTOSINE	250 mg

**Inactive Ingredients**

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
FERROSFERRIC OXIDE (UNII: XM0M87F357)	
POTASSIUM HYDROXIDE (UNII: WZH3C48M4T)	
STARCH, POTATO (UNII: 8I089SAH3T)	
SHELLAC (UNII: 46N107B71O)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	

**Product Characteristics**

Color	gray (cap) , green (body)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	FLU;250
Contains			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60687-599-21	30 in 1 BOX, UNIT-DOSE	05/01/2021	
1	NDC:60687-599-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213665	05/01/2021	

**FLUCYTOSINE**

flucytosine capsule

**Product Information**

Product Type	HUMAN PRESCRIPTION	Item Code	NDC:60687-610(NDC:59651-
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<b>Product Type</b>	DRUG	<b>(Source)</b>	332)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
FLUCYTOSINE (UNII: D83282DT06) (FLUCYTOSINE - UNII:D83282DT06)	FLUCYTOSINE	500 mg

### Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
FERROSFERRIC OXIDE (UNII: XM0M87F357)	
POTASSIUM HYDROXIDE (UNII: WZH3C48M4T)	
STARCH, POTATO (UNII: 8I089SAH3T)	
SHELLAC (UNII: 46N107B71O)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

### Product Characteristics

<b>Color</b>	gray (cap) , white (body)	<b>Score</b>	no score
<b>Shape</b>	CAPSULE	<b>Size</b>	21mm
<b>Flavor</b>		<b>Imprint Code</b>	FLU;500
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60687-610-21	30 in 1 BOX, UNIT-DOSE	05/01/2021	
1	NDC:60687-610-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213665	05/01/2021	

**Labeler** - American Health Packaging (929561009)

### Establishment

Name	Address	ID/FEI	Business Operations

Revised: 9/2022

American Health Packaging