FLUCYTOSINE - flucytosine capsule Novel Laboratories, Inc.

FLUCYTOSINE Capsules USP

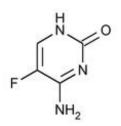
Rx only

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 Capsules USP.

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, each capsule contains lactose monohydrate, colloidal silicon dioxide, talc, sodium starch glycolate, magnesium stearate and hard gelatin capsule shell which contains gelatin, purified water, black iron oxide, FD&C Blue No.1, titanium dioxide and sodium lauryl sulfate for 250 mg strength; gelatin, purified water, black iron oxide and titanium dioxide for 500 mg strength. The imprinting ink contains black iron oxide, shellac, potassium hydroxide, titanium dioxide, povidone, sodium hydroxide and FD &C Red No. 40 aluminum lake for 250 mg and 500 mg strengths. 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 Capsules USP 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 α -fluoro- β -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 Capsules USP 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 ± 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 Capsules USP 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 USP is 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 USP should be used in combination with amphotericin B for the treatment of systemic candidiasis and cryptococcosis because of the emergence of resistance to Flucytosine Capsules USP (See MICROBIOLOGY).

CONTRAINDICATIONS

Flucytosine Capsules, USP is contraindicated in patients with a known hypersensitivity to the drug.

Flucytosine Capsules, USP is contraindicated in patients with known complete dihydropyrimidine dehydrogenase (DPD) enzyme deficiency (see WARNINGS).

WARNINGS

Flucytosine Capsules USP must be given with extreme caution to patients with impaired renal function. Since Flucytosine Capsules USP is excreted primarily by the kidneys, renal impairment may lead to accumulation of the drug. Flucytosine Capsules USP 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 Capsules USP 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 Capsules, USP 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 Capsules, USP treatment.

PRECAUTIONS

General

Before therapy with Flucytosine Capsules USP 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 Capsules USP 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 Jaff'e reaction, since Flucytosine Capsules USP does not interfere with the determination of creatinine values by this method. Most automated equipment for measurement of creatinine makes use of the Jaff'e 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/M²/day or 0.059 times the human dose), 200 mg/kg/day (690 mg/M²/day or 0.118 times the human dose) or 400 mg/kg/day (1380 mg/M²/day or 0.236 times the human dose) of flucytosine on days 7 to 13 of gestation was studied; the in uterotreatment 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/M²/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/M²/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/M²/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/M²/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 Capsules USP 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 Capsules USP, 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 Capsules USP have 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 Capsules USP are 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 Novel Laboratories, Inc. at 1-866-403-7592 or FDA at 1-800-FDA-1088 or 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 Capsules USP 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 USP is 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 USP should be used in combination with amphotericin B for the treatment of systemic candidiasis and cryptococcosis because of the emergence of resistance to Flucytosine Capsules USP (See MICROBIOLOGY).

HOW SUPPLIED

Flucytosine Capsules USP, 250 mg are size 2 hard gelatin capsule with blue opaque cap and grey opaque body imprinted with "NL 771" on the cap with black ink and "250" on the body with red ink filled with white to off white powder.

Bottles of 30 (NDC 40032-771-03)

Bottles of 100 (NDC 40032-771-01).

Flucytosine Capsules USP, 500 mg are size 0 hard gelatin capsule with grey opaque cap and white opaque body imprinted "NL 770" on the cap with black ink and "500" on the body with red ink, filled with white to off white powder.

Bottles of 30 (NDC 40032-770-03)

Bottles of 100 (NDC 40032-770-01).

Store at 25°C (77°F); excursions permitted to 15°C - 30°C (59°F - 86°F).

Manufactured by:

Novel Laboratories, Inc.

Somerset, NJ 08873

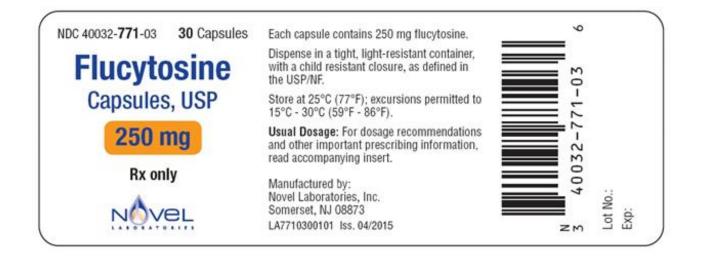
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Revised: 05/2022

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

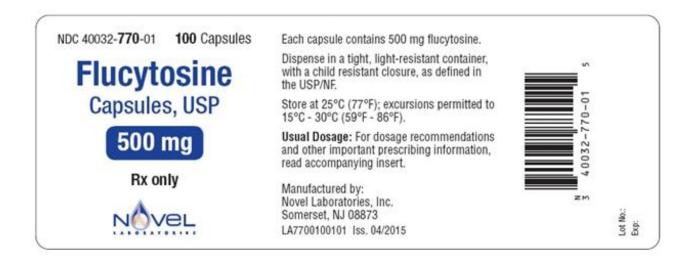
Flucytosine Capsules USP, 250 mg

30 Capsules



Flucytosine Capsules USP, 500 mg

100 Capsules



FLUCYTOSINE						
flucytosine capsule						
Product Information						
Product Type	HUMAN PRESCRIPTION DRUG	Item Co	Item Code (Source)		DC:40032-771	
Route of Administration	ORAL					
A stive Income dis ut/A stive	Malahy					
Active Ingredient/Active	Molety					
Ingredient Name			Basis of Stren	gth	Strength	
FLUCYTOSINE (UNII: D83282DT06) (FLUCYTOSINE - UNII:D83282DT06)			FLUCYTOSINE		250 mg	
Inactive Ingredients						

	Ingredient Name					Strength
LACTOSE MONO	DHYDRATE (UNII: E	WQ57Q8I5X)				
SILICON DIOXID	E (UNII: ETJ7Z6XBL	J4)				
MAGNESIUM STEARATE (UNII: 70097M6I30)						
TALC (UNII: 7SEV	(7J4R1U)					
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)						
FD&C BLUE NO	1 (UNII: H3R47K3T	BD)				
FERROSOFERRIC OXIDE (UNII: XM0M87F357)						
SODIUM STARC	H GLYCOLATE TY	PE A POTATO (UNII: 5856J3G2A	2)			
GELATIN (UNII: 2	G86QN327L)					
WATER (UNII: 05	9QF0KO0R)					
	L SULFATE (UNII: 3	68GB5141J)				
SHELLAC (UNII: 4	46N107B71O)					
POTASSIUM HY	DROXIDE (UNII: WZ	H3C48M4T)				
POVIDONE (UNII	: FZ989GH94E)					
SODIUM HYDRO	XIDE (UNII: 55X040	QC32I)				
FD&C RED NO.	40 (UNII: WZB9127)	XOA)				
Color	haracteristics GRAY (Opaque Body) , BLUE (Opaque Cap) CAPSULE			Score		
Shape	CAPSULE			Size		no score 18mm
	CAPSULE			Size		
Flavor	CAPSULE					18mm
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FLUCYTOSINE flucytosine capsule			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:40032-770
Route of Administration	ORAL		

Ingredient Name Basis of Strength Strengt FLUCYTOSINE (UNII: D83282DT06) (FLUCYTOSINE - UNII:D83282DT06) FLUCYTOSINE \$00 mg Inactive Ingredients Ingredient Name Strength LACTOSE MONOHYDRATE (UNII: EWQ57Q8DSX) Strength SULCON DIOXIDE (UNII: ET72 SXBU4) Strength Magnessum STEARATE (UNII: 70097M6I30) TALC (UNII: 75EV7J4R1U) TTALIC (UNII: 75EV7J4R1U) TTANIUM DIOXIDE (UNII: 15FI39V2JP) FERROSOFERRIC OXDE (UNII: 15FI39V2JP) Sobium STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) GELATIN (UNII: 26860N327L) Sobium STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) GELATIN (UNII: 26960N327L) Sobium STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) GELATIN (UNII: 2690F0K00R) Strength SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) Sobium STARCH GLYCOLATE TYPE A POTATO (UNII: 5856)3G2A2) GELATIN (UNII: 2690F0K00R) Strength Strength Portacic (UNII: 8280C321) Sobium HYDROXIDE (UNII: WZ H3C48M4T) Strength Portacic Characteristics Strength Strength Strength Glo WHTE (Opaque Body) , GRAY (Opaque Cap) Score no score <t< th=""><th>Active Ingred</th><th>ient/Active Moiety</th><th></th><th></th><th></th><th></th></t<>	Active Ingred	ient/Active Moiety					
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TITANIUM DIOXIDE (UNII: 15FIX9V2JP) FERROSOFERRIC OXIDE (UNII: XM0M87F357) SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856j3G2A2) GELATIN (UNII: 2G86QN327L) WATER (UNII: 059QF0KCOR) SHELLAC (UNII: 659QF0KCOR) SHELLAC (UNII: 46N107B710) POTASSIUM HYDROXIDE (UNII: WZH3C48M4T) POTASSIUM HYDROXIDE (UNII: SX04QC32I) FPOCUOLE (UNII: 55X94QC32I) FPOCUDE (UNII: 55X94QC32I) FPOC RED NO. 40 (UNII: SX04QC32I) FPOC RED NO. 40 (UNII: SX04QC32I) FIAVOR RATE (UNII: COP RED RESONAL FIAVOR REA RESONAL REA RESONAL	MAGNESIUM STE	ARATE (UNII: 70097M6I30)					
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GELATIN (UNII: 2G86QN327L) Image: Content of the second seco	FERROSOFERRIC	OXIDE (UNII: XM0M87F357)					
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SHELLAC (UNII: 46N107B710) POTASSIUM HYDROXIDE (UNII: WZH3C48M4T) POVIDONE (UNII: F3989GH94E) SODIUM HYDROXIDE (UNII: 55X04QC32I) FD&C RED NO. 40 (UNII: WZ B9127XOA) Product Charteristics COOR Shape CAPSULE CA	GELATIN (UNII: 2G	86QN327L)					
POTASSIUM HYDROXIDE (UNII: WZH3C48M4T) Image: Constant of the state of the	WATER (UNII: 0590	QF0KO0R)					
POVIDONE (UNII: FZ989GH94E) Image: Solum HYDROXIDE (UNII: S5X04QC32I) FD&C RED NO. 40 (UNII: WZB9127XOA) Score Product Characteristics no score Shape CAPSULE Size 21mm Flavor Imprint Code NL770;500 Color tains VHITE (Opaque Body) , GRAY (Opaque Cap) Score no score Shape CAPSULE Size 21mm Flavor Imprint Code NL770;500 Color tains VICTO;500 NL770;500 Product Job in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 VICTO;500 NDC:40032-770- 30 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 VICTO;500 NDC:40032-770- 100 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 VICTO;500 Marketing Information 07/07/2017 VICTO;500 Marketing Liformation 07/07/2017 VICTO;500	SHELLAC (UNII: 46	N107B71O)					
Solum Hydroxide (UNII: 55x04QC32I) Free (UNII: 55x04QC32I) Free (UNII: WZ B9127X0A) Score no score Size CAPSULE Flavor CAPSULE CAPSULE Size Imprint Code NL770;500 Colspan="4">CAPSULE Size Imprint Code Marketing Start Date Marketing Start Date Marketing Category Marketing Start Date	POTASSIUM HYDI	ROXIDE (UNII: WZH3C48M4T)					
FD&C RED NO. 40 (UNII: WZ B9127X0A) Solut Characteristics Score no score Score no score Size 21mm Imprint Code N.770;500 Flavor Score no score Size 21mm Flavor Score N.770;500 CAPSULE Score N.770;500 Tete Kaging # Item Code Package Description Marketing Start Date Marketing End Date NDC:40032-770- 30 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 IDO:40032-770- 30 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 IDO:40032-770- 100 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 IDO:40032-770- 100 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 IDO:10 in 1 BOTTLE; Type 0: Not a Combination 07/07/2017 <	POVIDONE (UNII: F	FZ 989GH94E)					
Product Characteristics Not of the second of the seco	SODIUM HYDROX	IDE (UNII: 55X04QC32I)					
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Flavor Imprint Code NL770;500 Flavor Imprint Code NL770;500 Package Description Marketing Start Date Marketing End Date 1 NDC:40032-770- 03 30 in 1 BOTTLE; Type 0: Not a Combination Product 07/07/2017 V 2 NDC:40032-770- 01 100 in 1 BOTTLE; Type 0: Not a Combination Product 07/07/2017 V Marketing End Date Marketing Start Date Marketing End Date Marketing Start Date Marketing End Date				Score	n	o score	
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2 NDC:40032-770- 01 100 in 1 BOTTLE; Type 0: Not a Combination Product 07/07/2017 Marketing Information Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date	1 I						
Marketing CategoryApplication Number or MonographMarketing StartMarketing EndCategoryCitationDateDate	2 NDC:40032-770-	100 in 1 BOTTLE; Type 0: Not a Combination	07/07/2017				
Marketing CategoryApplication Number or MonographMarketing StartMarketing EndCategoryCitationDateDate							
Category Citation Date Date	Marketing Information						
ANDA ANDA204652 07/07/2017			-				
	ANDA	ANDA204652	07/07/2	2017			

Labeler - Novel Laboratories, Inc. (793518643)

Registrant - Novel Laboratories, Inc. (793518643)

Establishment				
Name	Address	ID/FEI	Business Operations	
Novel Laboratories, Inc.		793518643	ANALYSIS(40032-770, 40032-771), MANUFACTURE(40032-770, 40032-771), PACK(40032-770, 40032-771)	

Revised: 5/2022

Novel Laboratories, Inc.