

CLINDAMYCIN PHOAPHATE TOPICAL SOLUTION USP, 1% - clindamycin phosphate topical solution usp, 1% solution
Encube Ethicals Private Limited

Clindamycin Phosphate Topical Solution USP, 1%*

For External Use

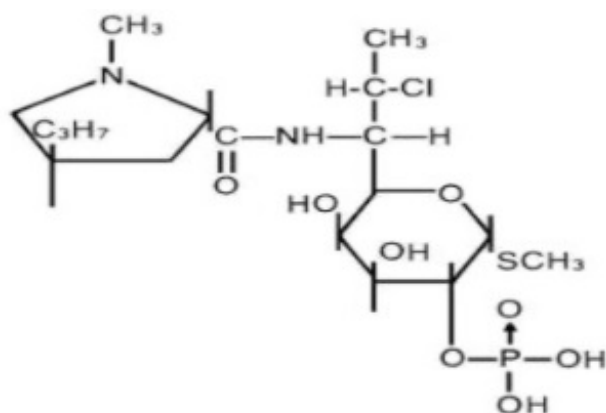
DESCRIPTION

Clindamycin phosphate topical solution USP, 1% contain clindamycin phosphate, USP, at a concentration equivalent to 10 mg clindamycin per milliliter.

Clindamycin phosphate is a water soluble ester of the semi-synthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent antibiotic lincomycin.

The solution contains isopropyl alcohol 50% v/v, propylene glycol, sodium hydroxide and purified water.

The structural formula is represented below:



The chemical name for clindamycin phosphate is Methyl 7-chloro-6,7,8-trideoxy-6-(1-methyl-*trans*-4-propyl-L-2-pyrrolidinecarboxamido)-1-thio-L-*threo*- α -D-galacto-octopyranoside 2-(dihydrogen phosphate).

CLINICAL PHARMACOLOGY

Mechanism of Action:

The Mechanism of action of clindamycin in treating acne vulgaris is unknown.

Pharmacokinetics

Following multiple topical applications of clindamycin phosphate at a concentration equivalent to 10 mg clindamycin per mL in an isopropyl alcohol and water solution, very low levels of clindamycin are present in the serum (0-3 ng/mL) and less than 0.2% of the dose is recovered in urine as clindamycin.

Although clindamycin phosphate is inactive *in vitro*, rapid *in vivo* hydrolysis converts this compound to the antibacterially active clindamycin.

Microbiology

Clindamycin inhibits bacterial protein synthesis by binding to the 23S RNA of the 50S subunit of the ribosome. Clindamycin is bacteriostatic.

Antimicrobial Activity

Clindamycin is active *in vitro* against most isolates of *Propionibacterium acnes*; however, the clinical significance is unknown.

Resistance

Resistance to clindamycin is most often caused by modification of specific bases of the 23S ribosomal RNA. Cross-resistance between clindamycin and lincomycin is complete. Because the binding sites for these antibacterial drugs overlap, cross resistance is sometimes observed among lincosamides, macrolides and streptogramin B. Macrolide-inducible resistance to clindamycin occurs in some isolates of macrolide-resistant bacteria.

INDICATIONS AND USAGE

Clindamycin phosphate topical solution USP, 1% is indicated in the treatment of acne vulgaris. In view of the potential for diarrhea, bloody diarrhea and pseudomembranous colitis, the physician should consider whether other agents are more appropriate (see CONTRAINDICATIONS, WARNINGS and ADVERSE REACTIONS).

CONTRAINDICATIONS

Clindamycin phosphate topical solution USP, 1% is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin, a history of regional enteritis or ulcerative colitis, or a history of antibiotic-associated colitis.

WARNINGS

Orally and parenterally administered clindamycin has been associated with severe colitis which may result in patient death. Use of the topical formulation of clindamycin results in absorption of the antibiotic from the skin surface. Diarrhea, bloody diarrhea, and colitis (including pseudomembranous colitis) have been reported with the use of topical and systemic clindamycin.

Studies indicate a toxin(s) produced by clostridia is one primary cause of antibiotic-associated colitis. The colitis is usually characterized by severe persistent diarrhea and severe abdominal cramps and may be associated with the passage of blood and mucus. Endoscopic examination may reveal pseudomembranous colitis. Stool culture for *Clostridium difficile* and stool assay for *C. difficile* toxin may be helpful diagnostically.

When significant diarrhea occurs, the drug should be discontinued. Large bowel endoscopy should be considered to establish a definitive diagnosis in cases of severe diarrhea.

Antiperistaltic agents such as opiates and diphenoxylate with atropine may prolong and/or worsen the condition. Vancomycin has been found to be effective in the treatment of antibiotic-associated pseudomembranous colitis produced by *Clostridium difficile*. The usual adult dosage is 500 milligrams to 2 grams of vancomycin orally per day in three to four divided doses administered for 7 to 10 days. Cholestyramine or colestipol resins bind vancomycin *in vitro*. If both a resin and vancomycin are to be administered concurrently, it may be advisable to separate the time of administration of each drug.

Diarrhea, colitis, and pseudomembranous colitis have been observed to begin up to several weeks following cessation of oral and parenteral therapy with clindamycin.

PRECAUTIONS

General

Clindamycin phosphate topical solution USP, 1% contains an alcohol base which will

cause burning and irritation of the eye. In the event of accidental contact with sensitive surfaces (eye, abraded skin, mucous membranes), bathe with copious amounts of cool tap water. The solution has an unpleasant taste and caution should be exercised when applying medication around the mouth.

Clindamycin phosphate topical solution USP, 1% should be prescribed with caution in atopic individuals.

Drug Interactions

Clindamycin has been shown to have neuromuscular blocking properties that may enhance the action of other neuromuscular blocking agents. Therefore, it should be used with caution in patients receiving such agents.

Pregnancy: Teratogenic effects

In clinical trials with pregnant women, the systemic administration of clindamycin during the second and third trimesters has not been associated with an increased frequency of congenital abnormalities. There are no adequate studies in pregnant women during the first trimester of pregnancy. Clindamycin should be used during the first trimester of pregnancy only if clearly needed.

Nursing Mothers

It is not known whether clindamycin is excreted in breast milk following use of clindamycin phosphate topical solution USP, 1%. However, orally and parenterally administered clindamycin has been reported to appear in breast milk. Clindamycin has the potential to cause adverse effects on the breast-fed infant's gastrointestinal flora. Monitor the breast-fed infant for possible adverse effects on the gastrointestinal flora, such as diarrhea, candidiasis (thrush, diaper rash) or rarely, blood in the stool indicating possible antibiotic-associated colitis.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for clindamycin and any potential adverse effects on the breast-fed child from clindamycin or from the underlying maternal condition.

Clinical Considerations

If used during lactation and clindamycin phosphate topical solution USP, 1% is applied to the chest, care should be taken to avoid accidental ingestion by the infant.

Pediatric Use

Safety and effectiveness in pediatric patients under the age of 12 have not been established.

Geriatric Use

Clinical studies for clindamycin phosphate 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.

ADVERSE REACTIONS

In 18 clinical studies of various formulations of clindamycin phosphate using placebo vehicle and/or active comparator drugs as controls, patients experienced a number of treatment emergent adverse dermatologic events [see table below].

Number of Patients Reporting Events			
Treatment Emergent Adverse Event	Solution n = 553(%)	Gel n=148 (%)	Lotion n=160(%)
Burning	62 (11)	15 (10)	17 (11)
Itching	36 (7)	15 (10)	17 (11)
Burning/Itching	60 (11)	# (-)	# (-)
Dryness	105 (19)	34 (23)	29 (18)
Erythema	86 (16)	10 (7)	22 (14)
Oiliness/Oily Skin	8 (1)	26 (18)	12*(10)
Peeling	61 (11)	# (-)	11 (7)

not recorded

* of 126 subjects

Orally and parenterally administered clindamycin has been associated with severe colitis which may end fatally.

Cases of diarrhea, bloody diarrhea and colitis (including pseudomembranous colitis) have been reported as adverse reactions in patients treated with oral and parenteral formulations of clindamycin and rarely with topical clindamycin (see WARNINGS).

Abdominal pain, gastrointestinal disturbances, gram-negative folliculitis, eye pain and contact dermatitis have also been reported in association with the use of topical formulations of clindamycin.

OVERDOSAGE

Topically applied clindamycin phosphate topical solution USP, 1% can be absorbed in sufficient amounts to produce systemic effects (see WARNINGS).

DOSAGE AND ADMINISTRATION

Apply a thin film of Clindamycin phosphate topical solution USP, 1% twice daily to affected area.

Keep container tightly closed.

HOW SUPPLIED

Clindamycin phosphate topical solution USP, 1% containing clindamycin phosphate equivalent to 10 mg clindamycin per millilitre is available in the following size:

60 mL Bottle - NDC - 21922-002-01

30 mL Bottle - NDC - 21922-002-21

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

Protect from freezing.

To report SUSPECTED ADVERSE REACTIONS, contact Encube Ethicals Private Limited at 1-800-FDA-1088 or www.fda.gov/medwatch.

Rx only

Manufactured By:

Encube Ethicals Pvt. Ltd.
Plot No. C1, Madkaim Ind. Estate,
Madkaim, Post Mardol, Ponda,
Goa-403 404, India.

Distributed By:

Encube Ethicals, Inc.
200 Meredith Avenue, Suite 101A,
Durham, NC 27713 USA

Rev: 09
January 2022

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

PRINCIPAL DISPLAY PANEL - 60ML BOTTLE CARTON

NDC - 21922-002-01

Clindamycin Phosphate Topical Solution USP, 1%*

Solution for topical use only

60 mL

Rx only

**Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].
Protect from freezing.**

Store in an upright fashion.

Keep container tightly closed.

For external use only.

Avoid contact with eyes.

Usual Dosage: See accompanying prescribing information.

To use enclosed applicator:

1. Remove cap and discard.
2. Firmly press applicator into bottle.
3. Seal firmly by tightening domed-cap.

Patient information

1. Clean and dry the skin area to be treated.
2. Apply a thin film of medication to the affected area. Use sparingly, avoiding eyes and mouth. If medication accidentally enters eyes, rinse thoroughly with tap water.
3. If using the applicator top, use dabbing motion of the tip rather than a rolling action. If tip becomes dry, invert the bottle and depress tip several times until it becomes moist.

*Each mL contains clindamycin phosphate equivalent to 10mg/mL (1%) of clindamycin. Also contains isopropyl alcohol 50%v/v, propylene glycol, sodium hydroxide and purified water.

Mfg. Lic. No.:

Manufactured by:

Encube Ethicals Pvt. Ltd.

Plot No. C-1, Madkaim Industrial Estate,
Madkaim, Post: Mardol, Ponda,
Goa - 403 404, India.

Distributed by:

Encube Ethicals, Inc.

200 Meredith Avenue, Suite 101A
Durham, NC 27713 USA

2D Coding and Batch Details to be overcoded
(For Reference Only)



GTIN: XXXXXXXXXXXXX
S.NO.: XXXXXXXXXX
EXP.: XXXXXX
LOT: XXXXXXXXXXXXX

Unvarnished
Area

ECS3A/00

NDC 21922-002-01

**Clindamycin
Phosphate
Topical Solution
USP, 1%***

Solution for topical use only

Mfg. Lic. No.: 362

Manufactured by:
Encube Ethicals Pvt. Ltd.
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Distributed by:
Encube Ethicals, Inc.
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Durham, NC 27713 USA



NDC 21922-002-01

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Phosphate
Topical
Solution
USP, 1%***

Solution for
topical use only

60 mL

Rx only

**Clindamycin
Phosphate
Topical Solution
USP, 1%***

Store at controlled room temperature
20° to 25°C (68° to 77°F) [see USP].
Protect from freezing

Store in an upright fashion.
Keep container tightly closed.

For external use only.

Avoid contact with eyes.

Usual Dosage:
See accompanying prescribing information.

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1. Remove cap and discard.
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accidentally enters eyes, rinse thoroughly
with tap water.
3. If using the applicator top, use dabbing
motion of the tip rather than a rolling action.
If tip becomes dry, invert the bottle and
depress tip several times until it becomes
moist.

*Each mL contains clindamycin phosphate
equivalent to 10mg/mL (1%) of clindamycin.
Also contains isopropyl alcohol 50%v/v,
propylene glycol, sodium hydroxide and
purified water.



NDC 21922-002-01

**Clindamycin
Phosphate
Topical
Solution
USP, 1%***

Solution for
topical use only

60 mL

Rx only

40 x 40 x 130 mm

NDC 21922-002-01

**Clindamycin
Phosphate
Topical
Solution
USP, 1%***

PRINCIPAL DISPLAY PANEL - 60ML BOTTLE LABEL

Clindamycin Phosphate Topical Solution USP, 1%*

NDC 21922-002-01

Solution for topical use only

60 mL

Rx only

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

Protect from freezing.

Store in an upright fashion.

Keep container tightly closed.

For external use only.

Avoid contact with eyes.

Usual Dosage: See accompanying prescribing information.

Patient information

1. Clean and dry the skin area to be treated.
2. Apply a thin film of medication to the affected area. Use sparingly, avoiding eyes and mouth. If medication accidentally enters eyes, rinse thoroughly with tap water.

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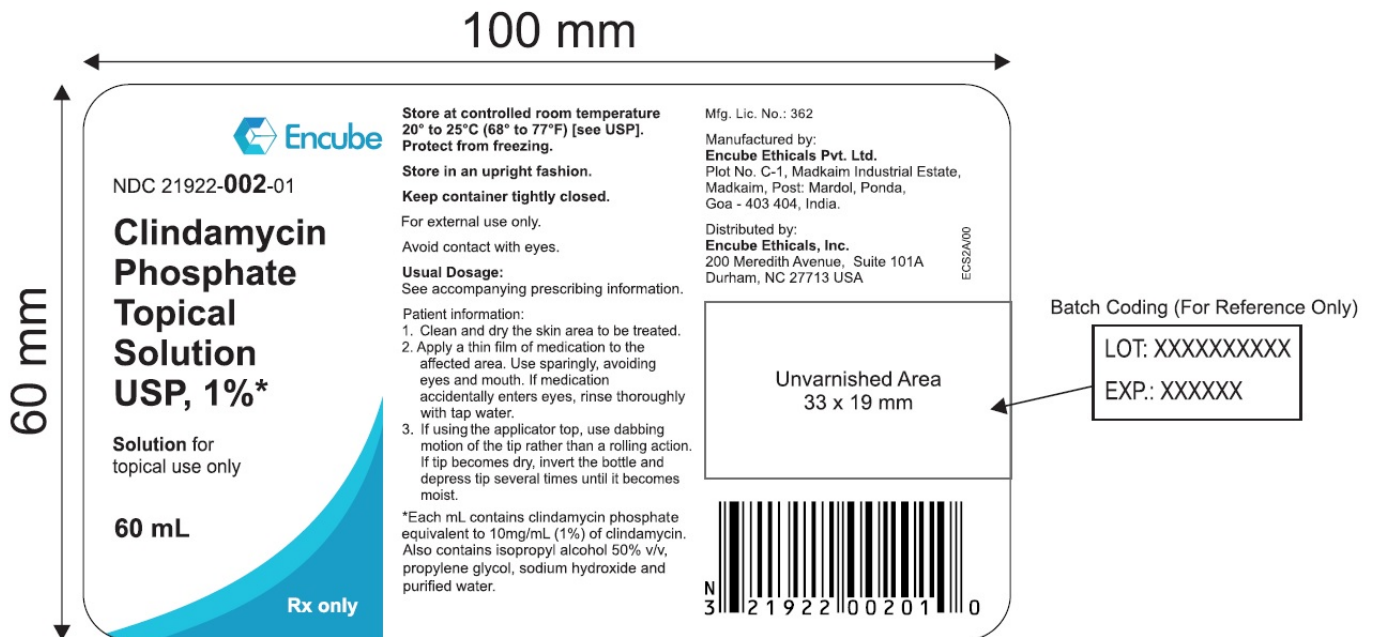
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PRINCIPAL DISPLAY PANEL - 30ML BOTTLE CARTON

Clindamycin Phosphate Topical Solution USP, 1%*

NDC 21922-**002**-21

Solution for topical use only

30 mL

Rx only

**Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].
Protect from freezing.**

Keep container tightly closed.

For external use only.

Avoid contact with eyes.

Usual Dosage: See accompanying prescribing information.

To use enclosed applicator:

1. Remove cap and discard.
2. Firmly press applicator into bottle.
3. Seal firmly by tightening domed-cap.

Patient information

1. Clean and dry the skin area to be treated.
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Mfg. Lic. No.: 362

Manufactured by:

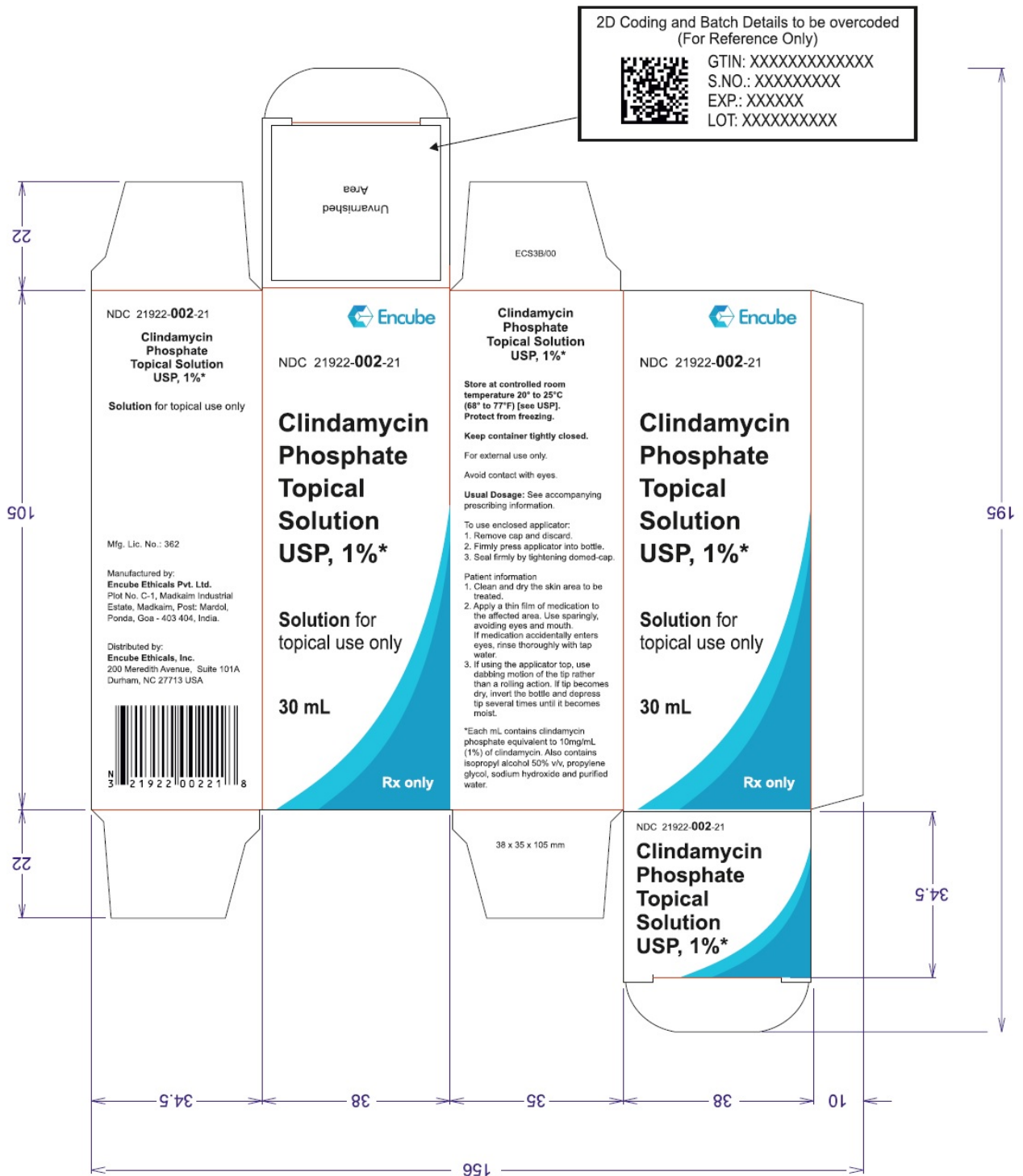
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Goa - 403 404, India.

Distributed by:

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200 Meredith Avenue, Suite 101A
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PRINCIPAL DISPLAY PANEL - 30ML BOTTLE LABEL

Clindamycin Phosphate Topical Solution USP, 1%*

NDC 21922-002-21

Solution for topical use only

30 mL

Rx only

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

Protect from freezing.

Store in an upright fashion.

Keep container tightly closed.

For external use only.

Avoid contact with eyes.

Usual Dosage: See accompanying prescribing information.

Patient information

1. Clean and dry the skin area to be treated.
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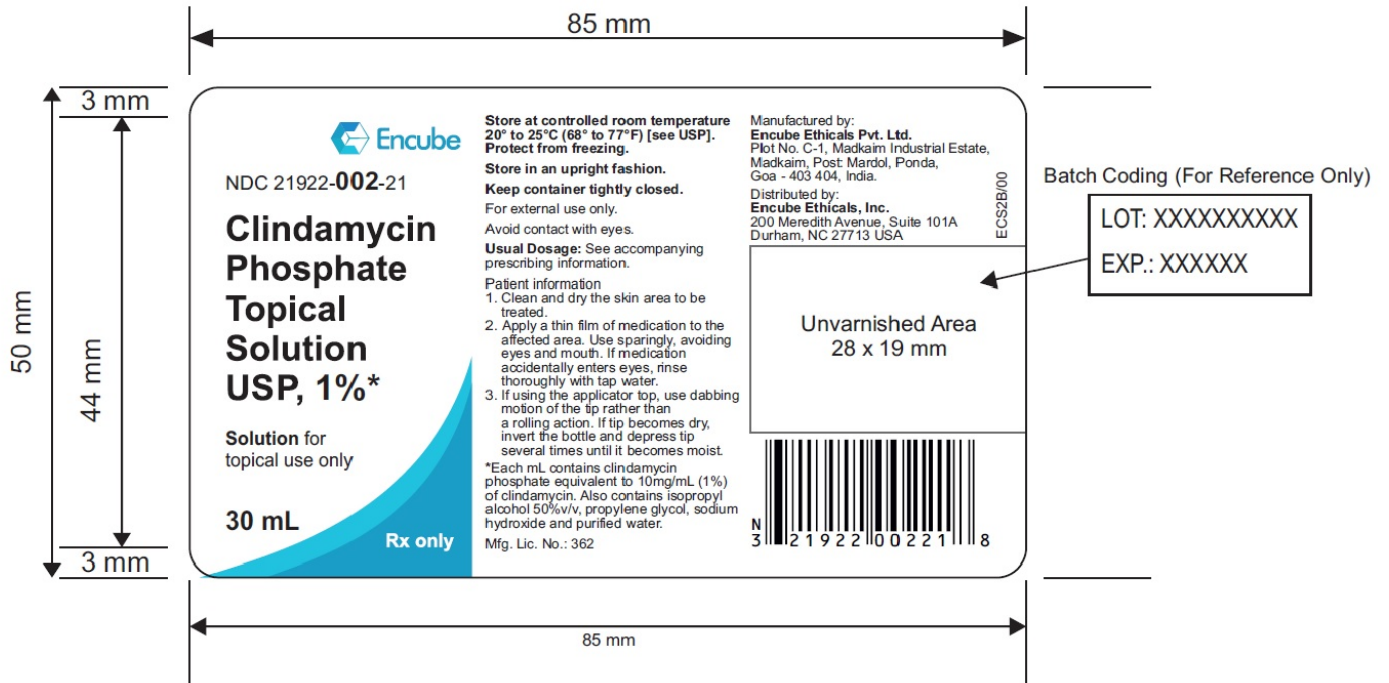
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200 Meredith Avenue, Suite 101A

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Dimension : 85 X 60 (LXH)mm



CLINDAMYCIN PHOAPHATE TOPICAL SOLUTION USP, 1%

clindamycin phosphate topical solution usp, 1% solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:21922-002
Route of Administration	TOPICAL		

Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN - UNII:3U02EL437C)			CLINDAMYCIN PHOSPHATE	10 mg in 1 mL
Inactive Ingredients				
Ingredient Name			Strength	
ISOPROPYL ALCOHOL (UNII: ND2M416302)				
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)				
SODIUM HYDROXIDE (UNII: 55X04QC32I)				
WATER (UNII: 059QF0KO0R)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:21922-002-01	1 in 1 CARTON	03/04/2019	
1		60 mL in 1 BOTTLE; Type 0: Not a Combination Product		
2	NDC:21922-002-21	1 in 1 CARTON	07/13/2020	
2		30 mL in 1 BOTTLE; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
ANDA	ANDA209914		03/04/2019	

Labeler - Encube Ethicals Private Limited (915834105)

Registrant - Encube Ethicals Private Limited (915834105)

Establishment

Name	Address	ID/FEI	Business Operations
Encube Ethicals Private Limited		725076298	ANALYSIS(21922-002) , LABEL(21922-002) , MANUFACTURE(21922-002) , PACK(21922-002)

Revised: 2/2024

Encube Ethicals Private Limited