#### NYSTATIN- nystatin suspension E. Fougera & Co. a division of Fougera Pharmaceuticals Inc.

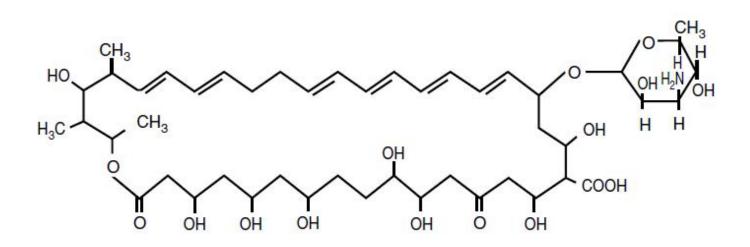
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Nystatin Oral Suspension, USP

Rx Only

### DESCRIPTION

Nystatin is an antimycotic polyene antibiotic obtained from *Streptomyces noursei*. The structural formula is:



Molecular Formula: C<sub>47</sub> H<sub>75</sub> NO<sub>17</sub> Molecular Weight: 926.13

Nystatin Oral Suspension, for oral administration, contains 100,000 USP Nystatin Units per mL. Inactive ingredients: alcohol USP (not more than 1% by volume), mint blend flavoring, dibasic sodium phosphate USP, glycerin USP, purified water USP, colloidal silicon dioxide, sucrose NF (50%), methylparaben NF (0.12%) and propylparaben NF (0.03%) as preservatives.

# CLINICAL PHARMACOLOGY

### **Pharmacokinetics:**

Gastrointestinal absorption of nystatin is insignificant. Most orally administered nystatin is passed unchanged in the stool. In patients with renal insufficiency receiving oral therapy with conventional dosage forms, significant plasma concentrations of nystatin may occasionally occur.

### Microbiology:

Nystatin is both fungistatic and fungicidal *in vitro* against a wide variety of yeasts and yeast-like fungi. *Candida albicans* demonstrates no significant resistance to nystatin *in vitro* on repeated subculture in increasing levels of nystatin; other *Candida* species become quite resistant. Generally, resistance does not develop *in vivo*. Nystatin acts by binding to sterols in the cell membrane of susceptible *Candida* species with a resultant change in membrane permeability allowing leakage of intracellular components. Nystatin exhibits no appreciable activity against bacteria, protozoa, or viruses.

## INDICATIONS AND USAGE

Nystatin Oral Suspension is indicated for the treatment of candidiasis in the oral cavity.

## CONTRAINDICATIONS

The preparation is contraindicated in patients with a history of hypersensitivity to any of its components.

## PRECAUTIONS

#### General:

This medication is not to be used for the treatment of systemic mycoses. Discontinue treatment if sensitization or irritation is reported during use.

### Carcinogenesis, Mutagenesis, Impairment of Fertility:

No long-term animal studies have been performed to evaluate carcinogenic potential. There also have been no studies to determine mutagenicity or whether this medication affects fertility in males or females.

**Pregnancy:** <u>Teratogenic Effects</u>–*Pregnancy Category C*. Animal reproduction studies have not been conducted with nystatin oral suspension. It is also not known whether nystatin oral suspension can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Nystatin oral suspension should be given to a pregnant woman only if clearly needed.

### Nursing Mothers:

It is not known whether nystatin is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when nystatin is administered to a nursing woman.

# **Pediatric Use:**

# See DOSAGE AND ADMINISTRATION.

### **ADVERSE REACTIONS**

Nystatin is well tolerated even with prolonged therapy. Oral irritation and sensitization have been reported.

### (See PRECAUTIONS, General.)

*Gastrointestinal:* Diarrhea (including one case of bloody diarrhea), nausea, vomiting, gastrointestinal upset/disturbances.

*Dermatologic:* Rash, including urticaria has been reported rarely. Stevens-Johnson syndrome has been reported very rarely.

*Other:* Tachycardia, bronchospasm, facial swelling, and nonspecific myalgia have also been rarely reported.

### OVERDOSAGE

Oral doses of nystatin in excess of five million units daily have caused nausea and gastrointestinal upset. There have been no reports of serious toxic effects or superinfections (see **CLINICAL PHARMACOLOGY, Pharmacokinetics**).

### DOSAGE AND ADMINISTRATION

INFANTS: 2 mL (approximately 1/2 teaspoon)(200,000 units) four times daily 1 mL (approximately 1/4/ teaspoon) (one-half of dose) in each side of mouth and avoid feeding for 5 to 10 minutes. NOTE: Limited clinical studies in premature and low birth weight infants indicate that 1 mL four times daily is effective.

CHILDREN AND ADULTS: 4 - 6 mL (approximately 1 teaspoon)(400,000 to 600,000 units) four times daily (one-half of dose in each side of mouth). The preparation should be retained in the mouth as long as possible before swallowing.

Continue treatment for at least 48 hours after perioral symptoms have disappeared and cultures demonstrate eradication of *Candida albicans*.

## HOW SUPPLIED

Nystatin Oral Suspension, USP (100,000 USP Nystatin Units per mL) is available as a mint-flavored, light yellow, ready-to-use suspension in the following sizes:

NDC 0168-0037-6060 mL bottle (with a calibrated dosing cup)NDC 0168-0037-6160 mL bottle (with a calibrated dropper)NDC 0168-0037-741 Pint bottle

Shake well before using. Wash cup before and after each use. Before dispensing, replace cap with safety cap dropper.

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

#### WARNING: Keep out of reach of children.

This product sealed for your protection. If the seal is missing or broken return to place of purchase.

E. FOUGERA & CO. A division of Nycomed US Inc. Melville, New York 11747

I237C/IF237E R11/07 #276

### PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 60ML CONTAINER

NDC 0168-0037-60

FOUGERA®

NYSTATIN ORAL

SUSPENSION USP

100,000 USP Nystatin Units per mL

Rx only

60mL



# PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 60ML CARTON

NDC 0168-0037-60

FOUGERA®

NYSTATIN ORAL

SUSPENSION USP

100,000 USP

Nystatin Units per mL

Rx only

60mL

with Dose

Measuring Cup

Shake well before using.

Wash cup before

and after use.

WARNING: Keep out

of reach of children.

| POUDERO<br>NYSTATIN ORAL<br>SUSPENSION USP<br>100,000 USP<br>Mystatin Units per mL<br>60 mL with<br>Dose Measuring Cup  |  |   |   |
|---|--|---|---|
|   | fougera *<br>Nystatin ORAL<br>SUSPENSION<br>USP  | NDC 0168-0037-60<br>fougera ®<br>NYSTATIN ORAL<br>SUSPENSION USP<br>100,000 USP<br>Nystatin Units per mL  | f <u>oug</u> era *<br>NYSTATIN ORAL<br>SUSPENSION<br>USP  |
| USUAL DOSAGE - INFANTS:<br>2 mL (approximately 1/2 teaspoon)<br>(200,000 units) four times daily 1mL<br>(approximately 1/4 teaspoon) in<br>each side of mouth and avoid<br>feeding for 5 to 10 minutes.<br>USUAL DOSAGE - CHILDREN<br>AND ADULTS: See package insert. | Store at 20°-25°C (68°-77°F);<br>excursions permitted between<br>15°-30°C (59°-86°F)<br>[see USP Controlled Room<br>Temperature].<br>This product sealed for your<br>protection. If the seal is missing<br>or broken return to place of<br>purchase. | R only<br>60 mL<br>with Dose<br>Measuring Cup<br>Shake well before using.<br>Wash cup before<br>and after use.<br>WARNING: Keep out<br>of reach of children.<br>E. FOUGERA & CO.<br>A division of Nycomed US Inc.<br>Melville, New York 11747 | Each mL contains 100,000 USP<br>Nystatin Units in a vehicle<br>containing 50% sucrose and<br>not more than 1% alcohol by<br>volume with methylparaben<br>(0.12%) and propylparaben<br>(0.03%) as preservatives. |
|   | IP5339A<br>R11/07<br>#258  | 3 0168-0037-60 8  |   |
|   |  | 258   |   |

NYSTATIN

nystatin suspension

| Product T ype                        |                | HUMAN PRESCRIPTIO  | Item Code (Sour | ce)               | NDC:0168-0037 |                   |
|--------------------------------------|----------------|--------------------|-----------------|-------------------|---------------|-------------------|
| Route of Administrati                | on             | ORAL               |                 |                   | ,             |                   |
|                                      |                |                    |                 |                   |               |                   |
| Active Ingredient/                   | Active Moi     | ety                |                 |                   |               |                   |
| 0                                    | Ingredien      | •                  |                 | Basis of Strength |               | Strength          |
| nystatin (UNII: BDF1010              | _              |                    | n               | ystatin           | 100000        | ) [USP'U] in 1 mL |
|                                      |                |                    |                 |                   |               |                   |
| Inactive Ingredien                   | its            |                    |                 |                   |               |                   |
|                                      |                | Ingredient Nan     | ne              |                   |               | Strength          |
| alcohol (UNII: 3K9958V               | ′90M)          |                    |                 |                   |               |                   |
| sodium phosphate, dib                | asic (UNII: GR | 586LBA74)          |                 |                   |               |                   |
| <b>glycerin</b> (UNII: PDC6A3        | COOX)          |                    |                 |                   |               |                   |
| water (UNII: 059QF0KO                | 0 R)           |                    |                 |                   |               |                   |
| silicon dioxide (UNII: E             | TJ7Z6 XBU4)    |                    |                 |                   |               |                   |
| sucrose (UNII: C151H8M               | 554)           |                    |                 |                   |               |                   |
| methylparaben (UNII: A               | 218C7HI9T)     |                    |                 |                   |               |                   |
| propylparaben (UNII: Z               | 8IX2SC1OH)     |                    |                 |                   |               |                   |
|                                      |                |                    |                 |                   |               |                   |
| Product Character                    | ristics        |                    |                 |                   |               |                   |
| Color                                |                |                    | Score           |                   |               |                   |
| Shape                                |                |                    | Size            |                   |               |                   |
| Flavor                               |                | MINT               | Imprint Cod     | le                |               |                   |
| Contains                             |                |                    |                 |                   |               |                   |
|                                      |                |                    |                 |                   |               |                   |
| Packaging                            |                |                    |                 |                   |               |                   |
| # Item Code                          | Pac            | kage Description   | Marke           | eting Start Date  | Mar           | keting End Date   |
| 1 NDC:0168-0037-60                   | 1 in 1 CA      | RTON               |                 |                   |               |                   |
| 1                                    | 60 mL in       | 1 BOTTLE           |                 |                   |               |                   |
|                                      |                |                    |                 |                   |               |                   |
|                                      |                |                    |                 |                   |               |                   |
| Marketing Info                       | rmation        |                    |                 |                   |               |                   |
| Marketing Info<br>Marketing Category |                | on Number or Monog | graph Citatio   | n Marketing Start | Date 1        | Marketing End Da  |

Labeler - E. Fougera & Co. a division of Fougera Pharmaceuticals Inc. (043838424)

| Establishment                |         |           |                            |  |
|------------------------------|---------|-----------|----------------------------|--|
| Name                         | Address | ID/FEI    | <b>Business Operations</b> |  |
| Fougera Pharmaceuticals Inc. |         | 043838424 | ANALYSIS(0168-0037)        |  |

| Establishment                |         |           |                            |
|------------------------------|---------|-----------|----------------------------|
| Name                         | Address | ID/FEI    | <b>Business Operations</b> |
| Fougera Pharmaceuticals Inc. |         | 174491316 | MANUFACTURE(0168-0037)     |

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