



SFN 10

AN INNOVATIVE SOLUTION FOR NAIL FUNGUS

NAIL FUNGAL INFECTION

- NAIL FUNGUS IS
 OFTEN PERCEIVED
 TO BE A NICHE
 PROBLEM,
 AFFECTING FEW
 PEOPLE
- QUITE THE
 OPPOSITE. IT IS
 THE MOST COMMON
 NAIL DIEASE
 AFFECTING 10% OF
 THE POPULATION
 WORLDWIDE (50%
 of people over 70
 years)

SYMPTOMS OF NAIL FUNGUS INFECTION

DISCOLOURATION (yellow, dull)
B
RITTLE, CRUMBLY or THICKENED

Emitting a foul odor

Nail loss contact with its bed. In severe cases the nail may separate from the nail bed



IS FUNGAL NAIL INFECTION CONTAGIOUS?

- ☐ FUNGAL NAIL INFECTION IS CONTAGIOUS!
- If it is left untreated, the fungal nail infection will spread to other healthy nails
 - Since fungus thrives in warm and humid conditions, public showers and swimming pool are the hotbed for trasmission

CAUSE OF NAIL FUNGUS INFECTION

 DERMATOPHYES (Candida spp and Tricophyton rubrum)

□ YEAST

□ MOULDS

NEED OF A WIDE SPECTRUM THERAPY

SFN10 FORMULA

| Ingredients | % w/w | mg/bottle | Function |
|-----------------------|--------|-----------|--------------|
| Ethyl Lactate | 84,6 % | 2791,8 ml | pH Regulator |
| Acetic acid | 8% | 264 ml | pH Regulator |
| Undecylenic acid | 0,2 % | 6,6 ml | Preservative |
| Methylisothiazolinone | 0,2 % | 6,6 ml | Preservative |
| Water | 7 % | 231 ml | Solvent |
| Total | 100% | 3300 | |

SFN10: MODE OF ACTION

- 1) ETHIL LACTATE CREATE AN HOSTILE ENVINRONMENT FOR THE GROWTH OF MICORGANISM BY KEEPING AN ACID pH INSIDE THE NAIL. Tricophyton rubrum and Candida albicans need a pH GREATER OF 4,5-5,0. ETHIL LACTATE MANTAIN THE pH AT BELOW 3,0 BLOCKING THE DEVELOPING OF FUNGUS.
- 2) LOW pH POTENTIATE THE ACTION OF A STRONG MIXTURE OF ANTIFUNGAL COMPONENTS (ACETIC ACID, UNDECYLENIC ACID, METHYLCHLOROISOTHIAZOLINONE)



WHY SFN10 IS SO EFFECTIVE?

- □ ADHERE TO THE TOPICAL INFECTED AREA
- WIDE SPECTRUM THERAPY
- □ MINIMIZE THE RISK OF SECONDARY EFFECTS RELATED TO SISTEMIC EXPOSURE
- MINIMIZE THE RISK OF REISTANCE

1.EFFICACY OF SOLUTION: TEST ON CANDIDA (STUDY 1904.15M00022 ON CANDIDA ALBICANS)

| Concentration of product | Time of Contact | % of Reduction |
|--------------------------|-----------------|-----------------|
| 99% | 6 H | ≥ 99,9 % |
| 99% | 24 H | ≥ 99,9 % |
| 99 % | 48 H | ≥ 99,9 % |

SFN10 at concentration normally used in clincal applications has BEEN TESTED IN CULTURES CANDIDA ALBICANS. The solution was still active reducing completely the growth of fungus after 48 h of contact from application

SFN10 ON C. ALBICANS IS MORE EFFECTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET BEING ACTIVE AT LOWEST CONCENTRATION (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)

| Antifungal | MIC _a /WŁC _p | |
|------------|------------------------------------|--|
| | candida albicans | |
| SFN10 | 0.78 % / 3.125 % | |
| EXCILOR | 1.56 % / 6.25 % | |
| LOCERYL | 6.25 % / 25 % | |
| EMTRIX | 6.25 % / 12.5 % | |
| NAILNER | 6.25 % / 12.5 % | |

^a MIC: Minimum inhibitory concentration.

^b MFC: Minimum fungicidal concentration

SFN10 ON C. ALBICANS IS MORE ACTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)

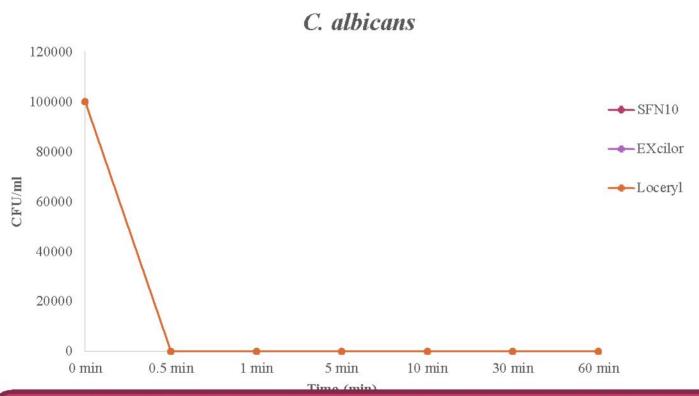
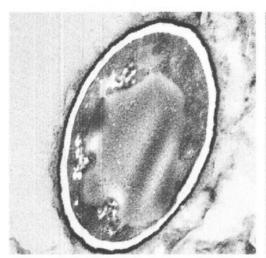
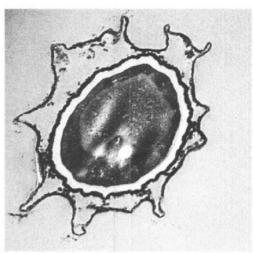


Figure 1: Killing kinetics of SFN10, EXCILOR and LOCERYL against *C. albicans*. All three antifungals revealed fast killing kinetics by killing all fungal cells within 1 min of incubation at room temperature.

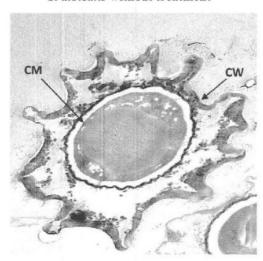
TEM ON COMPARATIVE EFFECT OF SFN10 VS LOCERYL AND EXCILOR ON C. ALBICANS: THE DAMAGE OF SFN10 IS MORE EVIDENT (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)



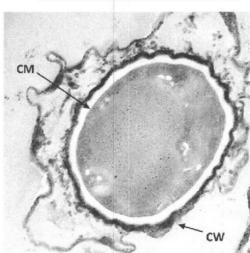
C. albicans without treatment



C. albicans treated with LOCERYL



C. albicans treated with SFN10



C. albicans treated EXCILOR

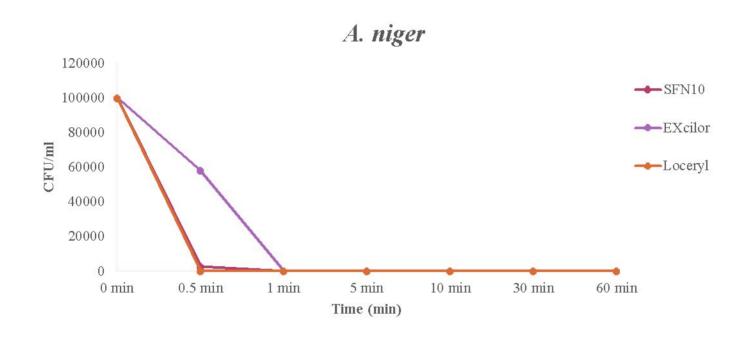
SFN10 ON A. NIGER IS MORE EFFECTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET BEING ACTIVE AT LOWEST CONCENTRATION (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)

| Antifungal | MICª/MFC ^b | |
|------------|-----------------------|--|
| | Aspergillus niger | |
| SFN10 | 1.56 % / 3.125 % | |
| EXCILOR | 1.56 % / 12.5 % | |
| LOCERYL | 12.5 % / 25 % | |
| EMTRIX | 12. 5 % / 25 % | |
| NAILNER | 3.125 % / 12.5 % | |

^a MIC: Minimum inhibitory concentration.

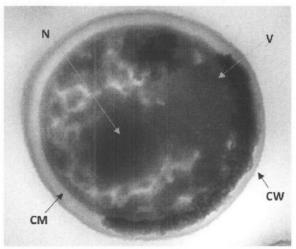
^b MFC: Minimum fungicidal concentration.

SFN10 ON A. NIGER IS MORE ACTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET, (UNIVERSITY OF MALAYA STUDY. KUALA LUMPUR)



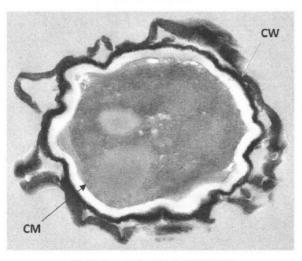
A. niger. All three antifungals revealed fast killing kinetics by killing all fungal cells within 1 min of incubation at room temperature.

TEM ON COMPARATIVE EFFECT OF SFN10 VS LOCERYL AND EXCILOR ON A. NIGER: THE DAMAGE OF SFN10 IS MORE EVIDENT (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)



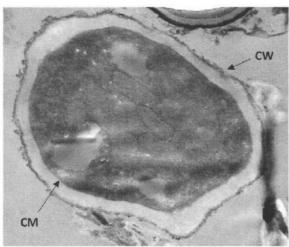
CM

Untreated cells



Cells treated with LOCERYL

Cells treated with SFN10



Cells treated with EXCILOR

1.EFFICACY OF SOLUTION: TEST ON TRICOPHYTON RUBRUM (study 1904.15M00026 on tricophytum ruber (study 1904.15M00022 on candida albicans)

| Concentration of product | Time of Contact | % of Reduction |
|--------------------------|-----------------|-----------------|
| 99% | 6 H | ≥ 99,9 % |
| 99% | 24 H | ≥ 99,9 % |
| 99% | 48 H | ≥ 99,9 % |

SFN10 at concentration normally used in clincal applications has BEEN TESTED IN CULTURES of TRICOPHYTUM RUBER The solution was still active in reducing completely the growth of fungus after 48 h. from application

SFN10 ON T. RUBRUM IS MORE EFFECTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET BEING ACTIVE AT LOWEST CONCENTRATION (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)

Table 1: Minimum inhibitory concentration of five antifungals against *Trichophyton rubrum*.

^a MIC: Minimum inhibitory concentration.

^b MFC: Minimum fungicidal concentration.

| Antifungal | MICª/MFCÞ | |
|------------|---------------------|--|
| | Trichophyton rubrum | |
| SFN10 | 0.78 % / 1.56 % | |
| EXCILOR | 1.56 % / 6.25 % | |
| LOCERYL | 12.5 % / 25 % | |
| EMTRIX | 6.25 % / 12. 5 % | |
| NAILNER | 3.125 % / 12.5 % | |

SFN10 ON T. RUBRUM IS MORE ACTIVE THEN OTHER TOPICAL ANTIFUNGAL ON MARKET (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)

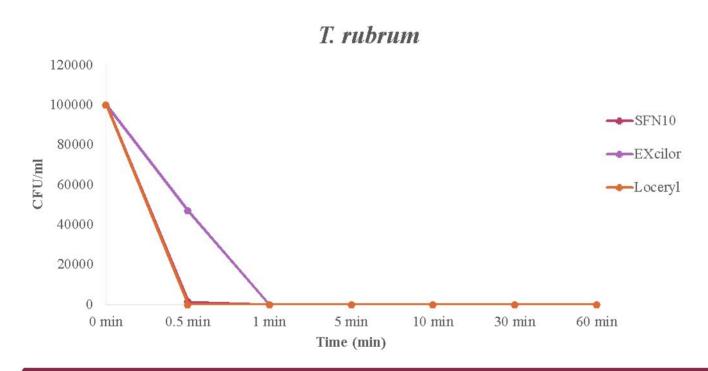
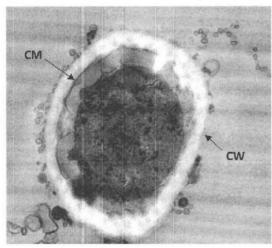
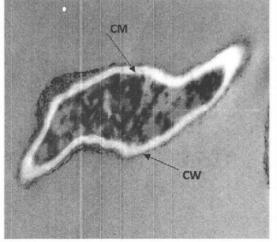


Figure 1: Killing kinetics of SFN10, EXCILOR and LOCERYL against *Trichophyton rubrum*. All three antifungals revealed fast killing kinetics by killing all fungal cells within 1 min of incubation at room temperature.

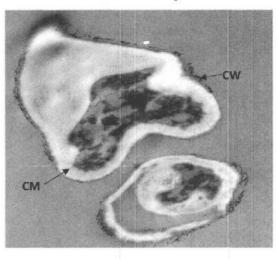
TEM ON COMPARATIVE EFFECT OF SFN10 VS LOCERYLAND EXCILOR ON T. RUBRUM: THE DAMAGE OF SFN10 IS MORE EVIDENT (UNIVERSITY OF MALAYA STUDY, KUALA LUMPUR)



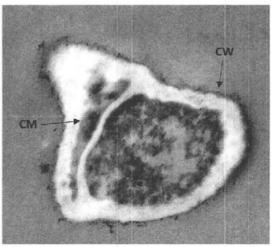
Untreated cells



Cells treated with LOCERYL



Cells treated with SFN10



Cells treated with EXCILOR

ANOTHER STUDY ON SFN10 HAS SHOW THAT AT CONCENTRATION OF 100%; 50% AND 20% HAS THE SAME ACTIVITY OF AMOROLFINE 5%, (LOCERYL) WHICH IS THE STANDARD REFERENCE TOPICAL TREATMENT FOR NAIL MYCOSIS

| Fungus | Test Suspension UFC/ml | Exposure time | SFN10 % reduction | Amorolfine 5% (Loceryl) |
|-------------|------------------------------|---------------------|----------------------------|----------------------------|
| T. rubrum | 1,8 x10⁵ 5,26 | 6 H 24 H 48 H | ≥99,9% ≥99,9% ≥99,9% | ≥99,9% ≥99,9% ≥99,9% |
| C. albicans | 2,5 x10 ⁶ 5,40 | 6 H 24 H 48 H | ≥99,9% ≥99,9% ≥99,9% | ≥99,9% ≥99,9% ≥99,9% |

SFN10 HAS THE SAME EFFICACY BUT WHILE LOCERYL COST APROXIMATLY 29,90 €/MONTH, SFN10 HAS A COST OF 13 €/MONTH

2. SFN10 A NOVEL APPLICATOR TO PENETRATE INTO THE NAIL







SFN10 NEW APPLICATOR

- 1. IT IS A DOSING MICROBRISTLE WHICH PERMIT THE APPLICATION OF A PRECISE AND COSTANT QUANTITY OF THE SOLUTION
- 2. THE QUANTITY (200 micr) HAS BEEN TESTED IN SCIENTIFIC TEST.
- 3. IT IS ABLE TO PENETRATE DEEPLY IN THE NAIL AT CONTACT WITH FUNGUS



2. SFN10 NEW APPLICATOR

Fungus are deply inside the nail.

No other applicator in the market can penetrate as deeply into the nails directly at contact with fungus as SFN 10. THIS PERMIT A GREATER EFFICACY





SFN10 ON COMPETITORS

□ POINT 1 : MORE EFFECTIVE

□ Point 2: LONGER ACTION

□ POINT 3: NOVEL AND INNOVATIVE APPLICATOR

□ POINT 4: LOWER PRICE



SFN10 VS COMPETITORS PRICE

SFN10 IS MORE EFFECTIVE AND ITS PRICE IS MORE COMPETITIVE COMPARED TO OTHER COMPETITIORS

RETAILER PRICE OF COMPETITORS ARE BEETWEN 19.90 € TO 29.90 €