A Natural Multi-Level System to Contrast Oily Skin and Hyper-Seborrhoea Excretion

# NIO-SEBACTIVE

NIOSOME TECHNOLOGY



Sebum Production –35% Shiny Looking Skin –27%





# AN FFFECTIVE COMPLEX FOR OILY SKIN TREATMENT

Thanks to its specific composition including Nobiletin (Tangerine peel extract), Oleanolic Acid, and Saw Palmetto Extract all encapsulated into elastic niosomal vesicles, NIO-SEBACTIVE restores natural sebum production acting at multiple

- Reduce Triacylglycerol levels, the major sebum lipid component, through the inhibition of diacylglycerol acyltransferase (DGAT)
- Reduce Sebum Production Rate by 5a–Reductase inhibition
- Reduce Inflammation Signals lowering lipoxigenase and cicloxigenase levels

NIO-SEBACTIVE IS THE NATURAL MULTI-ACTIVE SYSTEM TO CONTRAST OILY SKIN, HYPERSEBORRHOEA AND UNPLEASANT SKINY SKIN



# NIO-SEBACTIVE NATURAL INGREDIENTS

CITRUS RETICULATA PEEL EXTRACT



#### SEBACEOUS CELL CONTROL

Anti-acne agent that inhibits lipogenesis and sebaceous cells proliferation

#### ANTI-INFLAMMATION

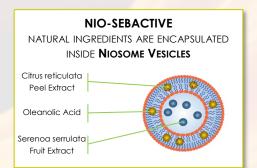
**OLEANOLIC ACID** 



Strong inhibitor of cycloxigenase and lipoxigenase, reducing synthesys of PGE2 and leukotriene B

#### SEBUM PRODUCTION REGULATION

5α-Reductase enzyme inhibitor, key step in sebum regulation

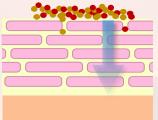


SERENOA SERRULATA FRUIT EXTRACT

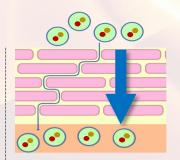


# ULTRA-DEFORMABLE NIOSOME The Most Advanced Skin Delivery System

CLASSIC ACTIVE INGREDIENTS

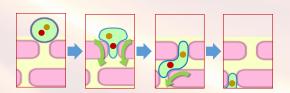








Ultra-Deformable Niosome are elastic vesicles able to squeeze through Stratum Corneum reaching living cells inside epidermis increasing the bioavailability of active ingredients



NIOSOME DELIVER ACTIVE INGREDIENTS WHERE MUST BE REALLY EFFECTIVE DRIVING THROUGH THE STRATUM CORNEUM

# NIO-SEBACTIVE MODE OF ACTION

#### STRESS FACTORS

Chrono&Photo Aging, Pollution, Poor Nutrition ++ Ormonal Changes ++ DiHydroTestosterone ++ Sebum Production Rate

Oily Skin

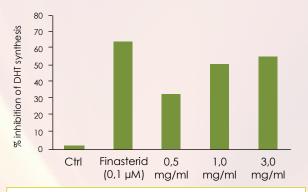
#### With NIO-SEBACTIVE



Anti-Seborreic Effect

#### NIO-SEBACTIVE ON DHT SYNTHESIS

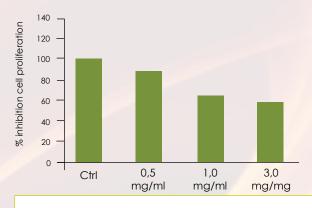
Measurement of DHT Synthesis Inhibition in Sebocyte cells in colture with Placebo, Finasteride or 0,5–3 mg/ml NIO-SEBACTIVE Solution after 48 hours



DHT SYNTHESIS –54%
EFFECT COMPARABLE WITH FINASTERIDE

#### NIO-SEBACTIVE ON SEBACEOUS CELL GROWTH

Measurement of Sebaceous cell (SZ95) growth with MTT Method in colture with 0-3 mg/ml NIO-SEBACTIVE Solution after 98 hours



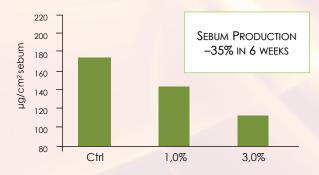
GROWTH OF SEBACEOUS CELLS -42%



# **IN VIVO** EFFICACY

#### **NIO-SEBACTIVE ON SEBUM PRODUCTION**

Measurement of Sebum Production using SEBUTAPE method using 1-3% NIO-SEBACTIVE applied twice daily for 6 weeks



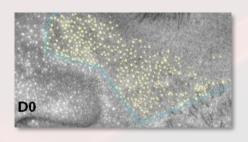
## NIO-SEBACTIVE ON SHINY COMPLEXION

Measurement of skin surface sebum using SEBUMETER using 3% NIO-SEBACTIVE applied twice daily for 4 weeks

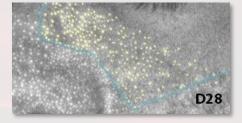


#### **NIO-SEBACTIVE ON PORPHIRIN NUMBER**

Measurement of number of skin porphirin (bacterial excretions lodged in pores) using 2% NIO-SEBACTIVE applied twice daily for 4 weeks

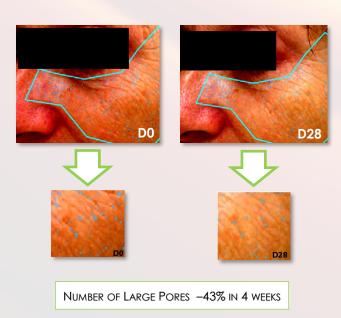


Number of Porphirins
–27% in 4 weeks



#### NIO-SEBACTIVE ON LARGE PORES NUMBER

Measurement of number of large pores using 2% NIO-SEBACTIVE applied twice daily for 4 weeks



# NIO-SEBACTIVE

# **NIOSOME** TECHNOLOGY

### FOR OILY SKIN AND EXCESSIVE SEBUM PRODUCTION

#### CLAIMS

- ANTI-SEBUM
- ANTI-ACNE
- OILY SKIN

#### COSMETIC APPLICATION

- SEBUM REGULATORY CREAM
- SEBUM BALANCING CREAM
- ANTI-ACNE CREAM

#### **INCI NAME**

Citrus Reticulata (tangerine) Peel Extract, Oleanolic Acid, Serenoa Serrulata Fruit Extract, Magnolol/Honokiol, Polyglyceryl-10 Laurate, Polyglyceryl-6 Oleate, Sorbitan Oleate, Aqua/Water

#### **SAFETY & TOXICITY**

Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

- non-irritating
- non-toxic

#### **FORMULATION SUGGESTIONS**

Use Levels: 1 - 3% pH range: 3,5 - 8,5

**Incorporation:** Diluite in water before blending.

Do not heat above 50°C

Origin: Botanical, Biotechnological

**Application:** Lotions, O/W and W/O emulsions, Gels

**Preservative:** None

Solubility: Dispersible in water

Compliant regulation: US - EU - China - Japan

Certification: COSMOS Approved



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