

CLINICALLY-RESEARCHED ACTIVATED VIRGIN COCONUT OIL

Introduction

The coconut (*Cocos nucifera*) is a well-known tropical plant and member of palm tree family. The coconut fruit is the source of coconut oil, which has a long history of culinary and topical use. Virgin coconut oil is extracted from fresh coconut milk, as opposed to regular coconut oil which comes from dried coconut kernels.

Activated Virgin Coconut Oil (AVCO®) is virgin coconut oil that has undergone an **enzymatic process** to **activate** broad spectrum antimicrobial activity. This makes AVCO effective against bacteria, yeast and fungi. This patented proprietary process was developed by MARDI (Malaysian Research and Development Institute).



Coconut oil derived from coconut fruit

AVCO® is ready to market as a natural and highly efficient antimicrobial ingredient against bacteria, yeast and fungi.

Benefits of AVCO®



Anti-dandruff



Anti-acne



Sebum control



Rich with Vitamin E

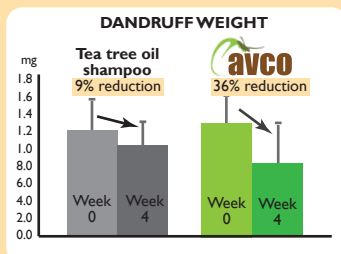
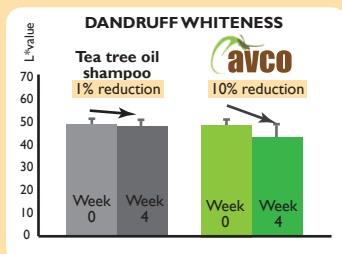


Natural ingredient

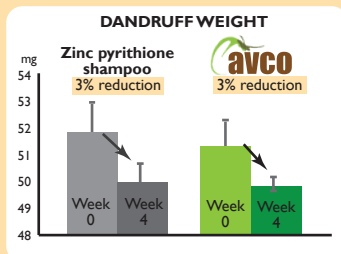
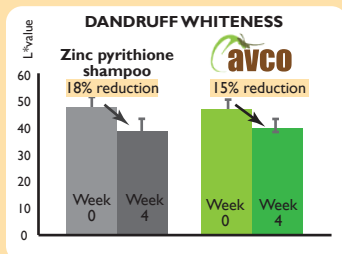
Studies for Anti-Dandruff (*Pityrosporum ovale*)

Two clinical trials were conducted by MPOB (Malaysian Palm Oil Board) testing the comparative efficacy of 0.9% AVCO® shampoo against commercial tea tree oil shampoo and zinc pyrithione shampoo.

AVCO® vs. Tea Tree Oil Shampoo

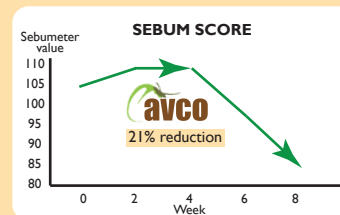
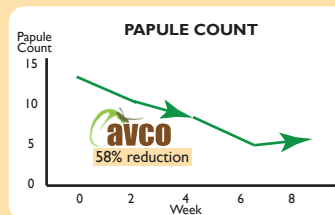
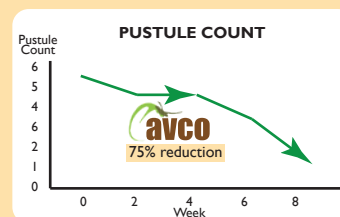
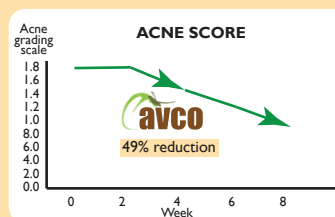


AVCO® vs. Zinc Pyrithione Shampoo



Study for Anti-Acne (*Cutibacterium acnes*)

A clinical study was carried out in Korea by the Ellead Skin Research Center using 1% AVCO® acne gel on subjects with acne.



Ingredient Description

Botanical name	<i>Cocos nucifera</i>
Class	Monocotyledonae
Order	Arecales
Family	Arecaceae
Common Names	Palm tree, coconut tree, pokok kelapa (Malay)
Country of Origin	Malaysia
Shelf Life	12 months
Part Used	Fruit flesh
Recommended Dose	<0.9% for topical application

About Us

Formed in 2007, Biotropics Malaysia Berhad is a wholly Malaysian company driven by our philosophy to produce superior natural health products for local and international markets. We achieve this by turning yesterday's traditional approach towards health & well-being into tomorrow's innovative health solutions, by verifying time-honoured traditions through state-of-the-art science.

Quality Assurance

Biotropics emphasizes quality control at every step of the supply chain from sourcing to final packing. We have a wholly-owned manufacturing subsidiary, Phytes Biotek Sdn. Bhd., which is certified for GMP, ISO 22000 and HACCP, and we are USFDA-inspected.



Extract Specification

Test Parameter	Method/Reference	Specification
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PHYSICAL & CHEMICAL

Iodine Value	AOCS Cd 1b-87	5.30 - 7.00
Slip Melting Point, °C	AOCS Cc 3-25	21.0
Clarity	Physical Observation	Clear when liquid, white/off-white when semi-solid
Odour	Physical Observation	Free from foreign rancid smell, with characteristic odour

QUALITY CHARACTERISTICS

Free Fatty Acid (mg KOH/g)	TM/R&D/037	140.0 (min)
Peroxide Value (meq/kg)	QWI-OF/17-123	1.0 (max)
Moisture (%)	TM/R&D/038	1.0

FATTY ACID COMPOSITION (%)

Caprylic C8:0		5.0 (min)
Capric C10:0	QWI-OF/17-15	4.5 (min)
Lauric C12:0		43.0 (min)

LIPID PROFILE (mg/g)

Caprylic Acid		40.0 (min)
Capric Acid		30.0 (min)
Lauric Acid		230.0 (min)
Monocaprylin	TM/R&D/036	3.0 (min)
Monocaprin		2.0 (min)
Monolaurin		20.0 (min)



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