

MALAYSIAN HALAL CONFERENCE & EXHIBITION 2009

Delivering HALAL Cosmetics To The World Market

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9th December 2009 Sunway Pyramid Convention Center





ORGANISATION STRUCTURE

CHAIRMAN & BOARD OF DIRECTORS

Company Secretary

Internal Audit

President and Chief Executive

Subsidiaries

President's Office

Research & Technology Division

Standards & Quality
Division

Marketing & Business
Development
Division

Engineering & Support
Services Division

Corporate Division





RESEARCH FOCUS AREAS

BIOPROCESS TECHNOLOGY

BIOCOSMETICS & NATURAL PRODUCTS

ENVIRONMENTAL MANAGEMENT TECHNOLOGY

PROCESS ENGINEERING Fermentation Technology

Enzyme Technology

Biosensor

Nutraceutical

Cosmeceutical

Natural Based Drug Discovery

> Molecular Biology

Anaerobic Treatment

Dye Colour Removal

Biological Deodourisation

Bioremediation Microbial Concoction

> Renewable Energy

Photocatalytic Treatment





TECHNICAL SERVICES

BIOPROCESS TECHNOLOGY

BIOCOSMETICS & NATURAL PRODUCTS

ENVIRONMENTAL MANAGEMENT TECHNOLOGY

PROCESS ENGINEERING Microbial Technology Services

Toxicology Evaluation Services

Environmental Performance Evaluation

Chemical Safety Management

> Cleaner Production

Life Cycle Assessment Eco- Friendly
Products/
Ecodesign

Process
Optimisation/
Simulation

Process & Plant Scale-up

Industrial Wastewater Treatment

GMP-HALAL

Training in Technology Focus Areas





SIRIM Berhad

ONE-STOP CENTRE FOR HERBAL BASED DEVELOPMENT OF COSMETIC PRODUCTS





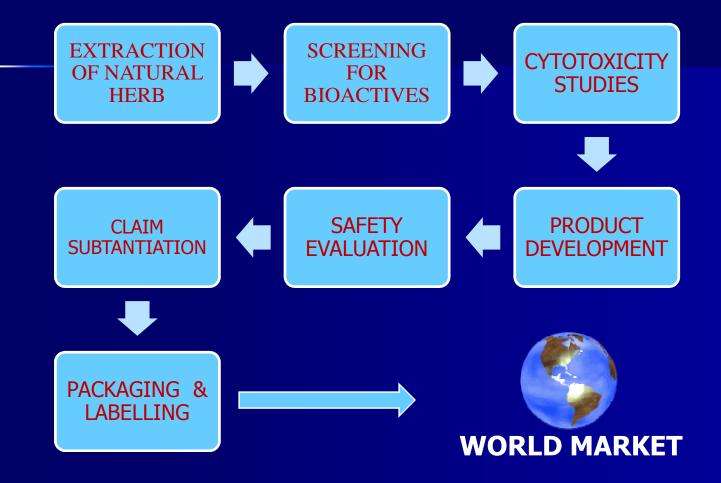








FLOW CHART FOR COSMETIC DEVELOPMENT







EXTRACTION PROCESS







- •Upstream processing of herbs and plant materials
- •Extraction of herbs (denatured ethanol, aqueous, SFC)



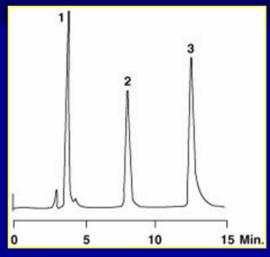




Propagation of standardised extract







- Fractionation of plant extract & bioassay –guided fractionation
- Isolation & purification of active constituents
- Identification of active compounds and chemical profiling (GC-MS,LC-MS)





Screening for Bioactives – In vitro







- Skin whitening
- Anti inflammatory
- Anti oxidant
- Anti wrinkle
- Anti microbial
- UV protection





Product Development

- Skin care
- Sun care
- Body care
- Colour cosmetic
- Hair care









Selection of raw materials – a critical point

- Free from ethanol (khamr)
- Free from non-halal animal derivatives (gelatin)
- Free from animal and human derivatives (placenta, human fat, etc)
- Natural emolients (botanical only)
- Synthetic emolients
- Synthethic and natural surfactant





HALAL Verification methodology

- MS 2200:2008-Islamic Consumer Goods-Part
 1:Cosmetic And Personal care General Guidelines
- Sources of the raw materials (animal based, plant based, petrochemical based, etc)
- Processing of raw materials
- Certificate of HALAL
- Letter of assurance from manufacturer







Authorities in Peru block 'human fat for cosmetics' ring

By Simon Pitman, 20-Nov-2009

Related topics: Products & Markets

Police in Peru say they have arrested a number of people on suspicion of murdering people in order to sell on their fat, allegedly to European cosmetic makers.

Police officials said the gang murdered individuals in rural areas and then extracted <u>fat</u> and tissues from the corpses in a clandestine laboratory, which was then sold to intermediaries in the country's capital, Lima.

According to a report in Peruvian national newspaper La Republica, police said the fat was sold on for approximately €10,000 a litre, and they believe it was then sold on to cosmetics companies in Europe for anti-ageing treatments, although this theory is still being investigated.

An organised gang, that included both Peruvian and Italian nationals, is said to have targeted mainly farmers in rural areas of the country, luring them with offers of employment, only to <u>murder</u> them.

Police investigate up to 60 related missing persons

At a press conference in Lima, a general of the Peruvian National Police, Eusebio Félix Murga, said his officers had arrested four people on suspicion of murdering dozens of victims, while further investigations were looking into gang members still at large, including two Italian nationals.

http://www.cosmeticsdesign-europe.com/Products-Markets/Authorities-in-Peru-block-human-fat-for-cosmetics-ring





THOYYIBAN or Good Manufacturing Practice

Quality

Safe

Effective





Reference materials

- 1. **ASEAN Cosmetic Directive**
- 2. COLIPA Guidelines
- 3. European Union (EU)
- 4. British Pharmacopeiea, United States Pharmacopeia, etc
- 5. National & International Standard
- 6. National and International Acts & Regulations
- 7. Company's specification





Quality Assurance

- Stability testing for a period of 6 months
 - $4 \circ C$, RT, $40 \circ C$, $50 \circ C$
 - pH, Colour, Viscosity
 - Microbiological testing











Cosmetic safety testing

- Microbiology
- Heavy metal (Arsenic, Lead, Mercury)
- Skin & Eye irritation









Product Claim substantiation

- Skin whitening
- Hydration
- Anti aging
- Anti cellulite
- Anti acne







Cosmetic production @ GMP pilot plant facilities











Packaging and Labelling

- Product Notification with Malaysian National Pharmaceutical Control Bureau.
- HALAL certification from JAKIM





COSMETIC DEVELOPED BY SIRIM BERHAD





BK CONCENTRATE COSMETICS

Actives from Traditional Food Products



LIST OF AWARDS:



- 1. Best of the Best Innovation in BioInno Awards BioMalaysia 2009
- 2. GOLD Medal in BioInno Awards BioMalaysia 2009
- 2. GOLD Medal in International Technology Expo (ITEX) 2009
- 3. GOLD Medal in Malaysia Technology Expo (MTE) 2009





Commercialization of Skin Lightening Products from extracts of the Zingiberaceae Family Plants



Licensed to Sireh Emas Marketing Sdn. Bhd.







Commercialization of Cosmetic Products Comprising of Serai Wangi Essential Oil



- . Developed with FRIM
- . Marketed by Syarikat Minyak Afiat Sdn. Bhd.





GROOM BIG COSMETIC HERBA PROGRAMME MITI-SIRIM Berhad













Colour Cosmetic Products



Lip products



Face products



Eye products







Anti acne skincare



Spa series



Anti ageing skincare



Anti cellulite body care



Men Care







Thank You

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