Delivering HALAL Cosmetics To The World Market

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9th December 2009
Sunway Pyramid Convention Center
TECHNICAL SERVICES

BIOPROCESS TECHNOLOGY

BIOCOSMETICS & NATURAL PRODUCTS

ENVIRONMENTAL MANAGEMENT TECHNOLOGY

ENERGY AND PROCESS ENGINEERING

Microbial Technology Services

Toxicology Evaluation Services

Eco-Friendly Products/Ecodesign

Environmental Performance Evaluation

Process Optimisation/Simulation

Chemical Safety Management

Process & Plant Scale-up

Cleaner Production

Industrial Wastewater Treatment

Life Cycle Assessment

GMP-HALAL

Training in Technology Focus Areas

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ONE-STOP CENTRE FOR HERBAL BASED DEVELOPMENT OF COSMETIC PRODUCTS

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FLOW CHART FOR COSMETIC DEVELOPMENT

1. EXTRACTION OF NATURAL HERB
2. SCREENING FOR BIOACTIVES
3. CYTOTOXICITY STUDIES
4. CLAIM SUBSTANTIATION
5. SAFETY EVALUATION
6. PRODUCT DEVELOPMENT
7. PACKAGING & LABELLING

WORLD MARKET
• Upstream processing of herbs and plant materials
• Extraction of herbs (denatured ethanol, aqueous, SFC)
Preparation 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 emollients (botanical only)
- Synthetic emollients
- Synthethic and natural surfactant
HALAL Verification methodology

- 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

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 fat 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 murder 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 Pharmacopeia, 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 °C, RT, 40 °C, 50 °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

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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
GROOM BIG COSMETIC HERBA PROGRAMME
MITI-SIRIM Berhad

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Colour Cosmetic Products

Lip products

Face products

Eye products
Spa series

Anti acne skincare

Men Care

Anti cellulite body care

Anti ageing skincare
Thank You

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