HALAL PHARMACEUTICALS, COSMETICS AND PERSONAL CARE

PROF. DR. IRWANDI JASWIR

Chairman, Korea-INHART Halal Certification Authority

Deputy Dean, International Institute for Halal Research and Training (INHART),

International Islamic University Malaysia (IIUM)

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INTERNATIONAL INSTITUTE FOR HALAL RESEARCH & TRAINING

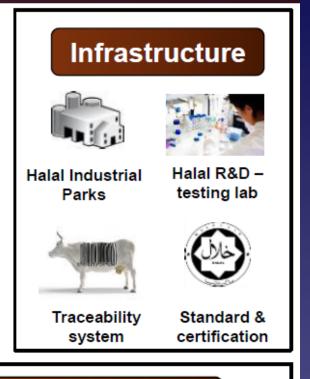




MALAYSIA OFFERS A COMPLETE HALAL ECOSYSTEM









Human Capital

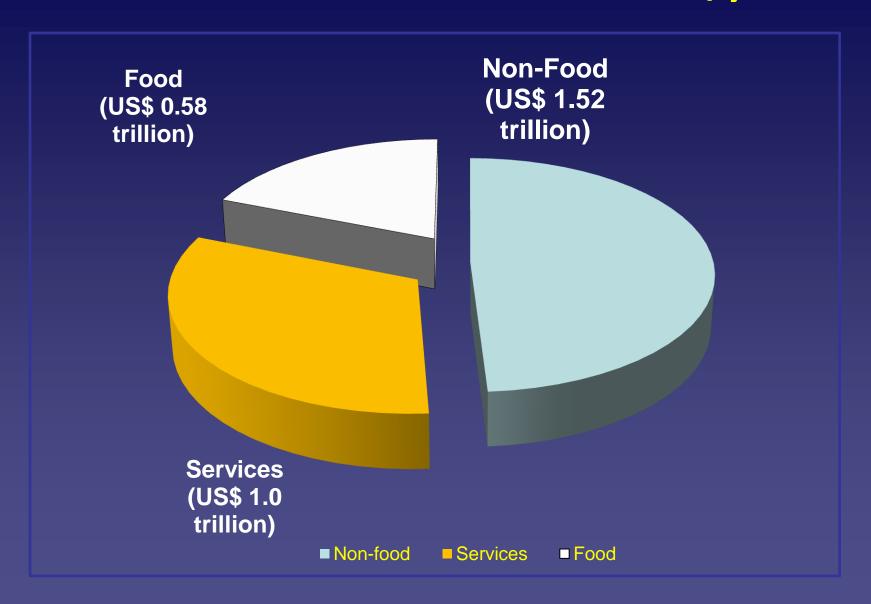


- Halal Knowledge Workers
- Halal Executives & Auditors
- Syllabus in universities & colleges

"Halal as the new source of economic growth"

A Statement by the Economic Planning Unit, Prime Minister's Department

Global Halal Market ~ US\$3.1 trillion/year



MARKET OUTLOOK

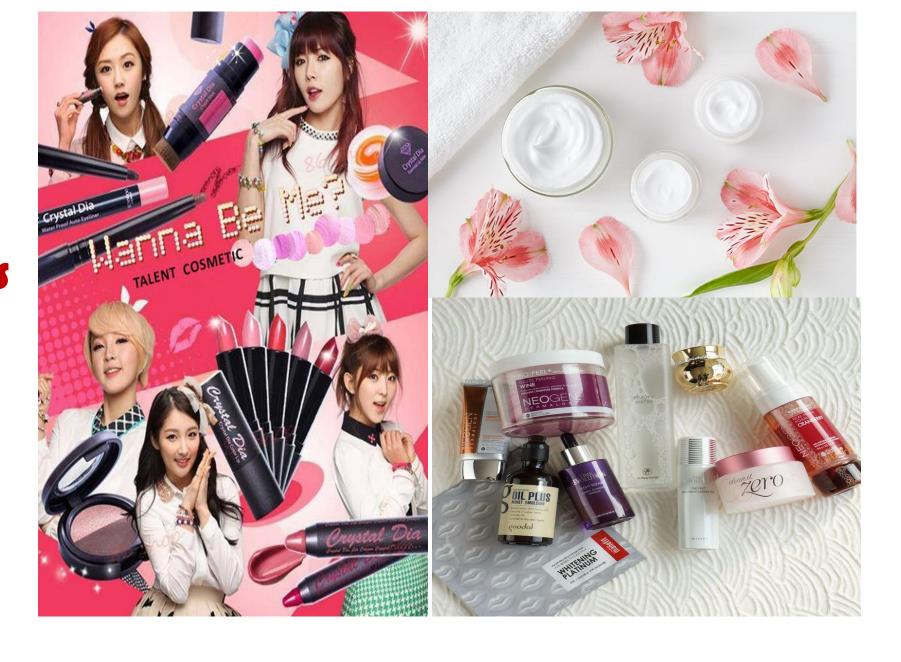
- The global market for cosmetics & personal care ~US\$150 billion (in 2004)
- Asia is the leading region in skin care consumption ~US\$ 17.4 (in 2004)
- Malaysia RM 3.2 billion in 2005 skin care accounts for 24% (RM 788 m)
- The global market for cosmetics & personal care ingredients is estimated US\$14.7 billion in 2005, with a growth of 5% per year through to 2010
- Asia Pacific make up 40% of the global skin care market
- With the global market for halal commodities valued at \$2 trillion, the estimated halal cosmetics in the Middle East is growing at 12% per annum and is valued at US\$2.1B

Korean Cosmetics

1300 COMPANIES

Major Players in

World Market





SKINCARE on AMAZON





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Three Main Issues in Pharmaceutical and Cosmetic Products

Raw materials

2 Processing

Authentication

GELATIN - PHARMACEUTICALS AND COSMETICS

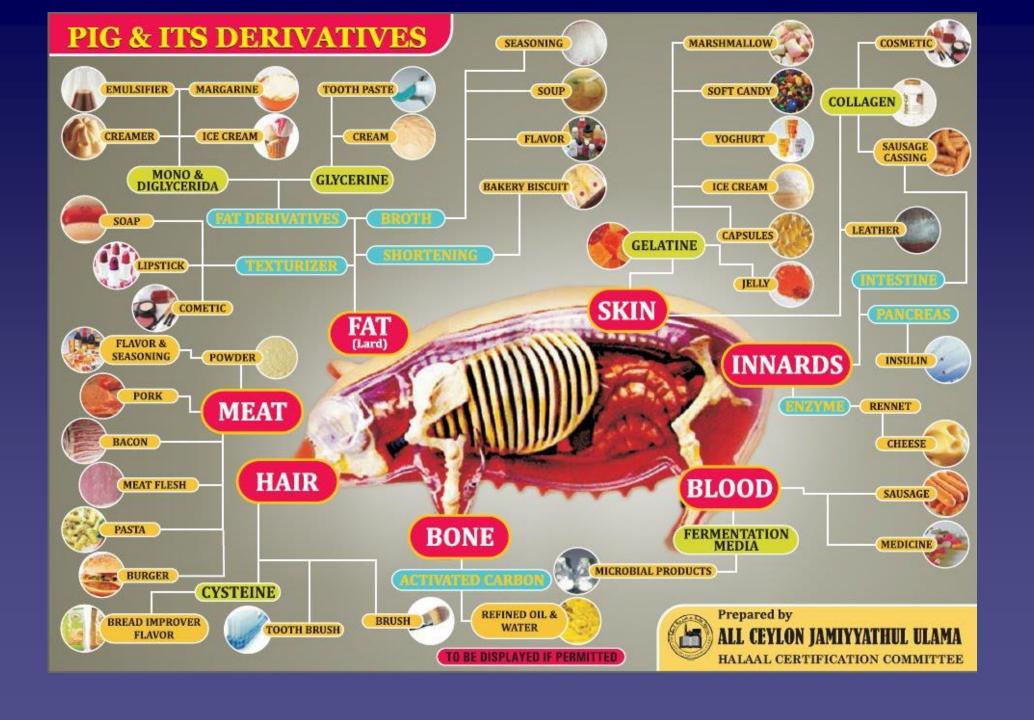
- Capsule (soft and two-piece hard capsule)
- Tablets (binding, moisturizing and coating agent)
- Lozenges and cough drops
- Excellent stabilizer and emulsifier in pharmaceutical emulsions
- External application of drugs to treat various skin disorder

COMMON HARAM INGREDIENTS

Placenta from human and animals Lard

Gelatin and collagen (from pork or animal that was not slaughtered according to Shariah law)

Emulsifiers (from lard or animal fat that was not slaughtered according to Shariah law)











Ingredients Functions Cosmetic and personal care products

- Placenta stimulate cell renewal in the body stimulate blood circulation, Exp. Feminine hygiene, face masks, scrubs, wrinkle creams
- Alcohol (SD alcohol,cetyl alcohol,stearyl alcohol) lubricant used to stabilize oil water emulsification -emulsifier & thickener Moisturizer, toner, deodorant, lotion, perfume
- Elastin (animal protein)
 to maintain skin elasticity Elasticity cream
- Gelatin repairs tissue source of protein: Anti-aging cream, wrinkles cream
- Collagen Stimulate the cell renewal Anti-aging cream

Past and Current Researches

- Gelatin from local goat for pharmaceutical capsules (in Indonesia)
- Fish gelatin (30 species)
- Production of fish gelatin nano-particles
- Encapsulation of bioactive peptide using gelatin nanoparticles
- Production of plant-based gelatin replacers
- Development of portable device for rapid authentication of non halal gelatin
- Determination of gelatins in dental materials
- Camel gelatin project (with KSU)
- Seaweeds projects

GELATIN ALTERNATIVES

- Non mammalian fish & poultry gelatin
- Polysaccharides chemically/enzymatically modified (deacytelated gellan, thermoreversible starch); mixed polysaccharide system
- Microbial gelatin via genetic engineering







PERSPECTIVE

From a religious point of view

Form a business point of view

 "O ye who believe! Forbid not the good things which Allah has made Halal for you, and transgress not. Lo Allah loves not transgressors. Eat of that which Allah has bestowed on you as food Halal and Good, and keep your duty to Allah in Whom ye are believers."

(Al Maaidah: Verse 87 –88)

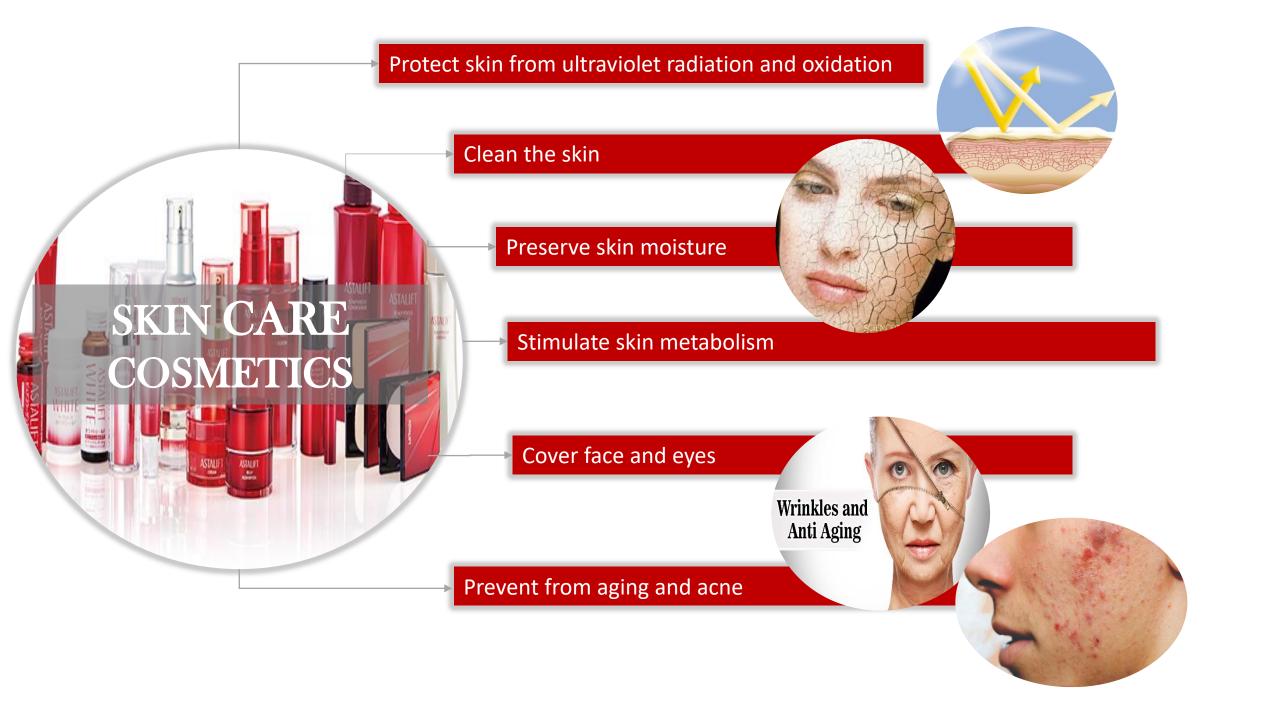


AN PHINK BE

Articles intended to be rubbed, poured, sprinkle, sprayed on, introduced into or otherwise applied to the human body or any part thereof for cleansing, beautifying, promoting attractiveness or altering the appearance

Any substance or preparation intended to be placed in contact with various external parts of the human body (epidermis, hair system, nails, lips and external genital organs) or with teeth and the mucous membranes of the oral cavity, with a view exclusively or mainly to cleaning them, perfuming them, changing their appearance and/or correcting body odors and/or protecting them or keeping them in good condition.























RAW MATERIALS, INGREDIENTS AND ADDITIVES

ADDITIVES

- Preservatives
- Color Perfume
- Therapeutic agents
- Vitamins
- Plant extract
- Opacifiers
- Pearlescing agents
- Viscosity agents

RESEARCH

Researchers
Research
INHART Halal
Laboratory
INHART Focus Areas



































































CENTPIFUGE









R & D on Halal Authentication

- Fourier Transform Infrared (FTIR) spectroscopy
- Electronic Nose (E-nose) technology
- Differential Scanning Calorimetry (DSC)
- Molecular Biology techniques (DNA, ELISA)
- Chromatography (e.g. GC-FID, GC-ToF-MS, HPLC, GCMS)
- Biopotential Telemetry EEG & ECG



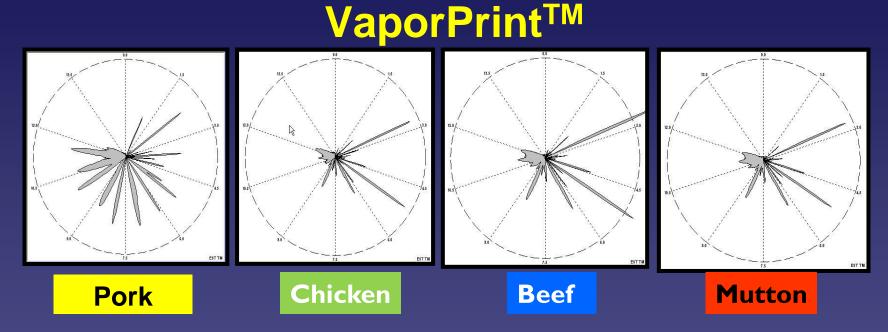








Rapid Detection of Haram Meat (pork) by Electronic Nose

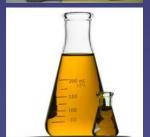


Typical chromatograms of four different types of meat. Pork showed more aromatic compound corresponding to the number of peaks.

Rapid Detection of Ethanol Content in Beverages using IIUM-Fabricated Portable Electronic Nose (Jaswir, et al., 2010)















Ethanol Concentration, % (v/v)	Range of Voltage Response (V)
0.01	0.4
0.1	0.4-0.43
1.0	0.48-0.55
10.0	0.75-0.97



Thank you

