

# Chemical Status: Cosmetic Ingredients Production Requirements

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# الحالة الكيميائية: مكونات مستحضرات التجميل ومتطلبات الإنتاج

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# Disclaimer



Opinions expressed in this presentation are my personal experiences as a Muslim Pharmaceutical and Cosmetic Scientist, and a 'Halal consumer' brought up in Europe, and not Islamic scholarly views

# Summary

- Consumer perception of Halal
- Why Halal Cosmetics & Pharmaceuticals
- Examples of Haram ingredients
- Difficulty in identifying Shubha or dubious ingredients
- Certification Process in a Nutshell
- Halal beyond Alcohol & Pork free
- 'Halal is for Everyone'
- Example of 'Halal' Cosmetic Product

# Personal



- **Pharmaceutical Chemist** - formulation development Chemist for Sanofi
- **Cosmetic Scientist** – founded Saaf Pure Skincare in 2004
- **Doctorate in Clinical Trials** – published with academic speciality in EBM
- **Auditor/consultant** - Halal certification of cosmetics, pharmaceuticals, speciality chemicals and non-meat products

## Consumer perception of Halal Lifestyle products (2003)

- What's next, Halal cars?
- You are trying to make money in the name of religion
- Mixing religion with business is a bad idea
- I never knew that cosmetics contain so many animal ingredients
- I didn't realise that what you put on your skin gets absorbed into your body
- If there are no Halal medicines, then it OK to take 'Haram' medicines because it saves lives

**But what if there is a choice...**

# Rise in animal free Pharmaceutical ingredients

Manufacturers are researching & producing animal free pharmaceutical alternatives

[www.in-pharmatechnologist.com/Processing-QC/Animal-free-cell-culture-ingredients-hit-the-shelves](http://www.in-pharmatechnologist.com/Processing-QC/Animal-free-cell-culture-ingredients-hit-the-shelves)

## Why?

- contamination risk from pathogens
- BSE crisis – Public lobbying
- Synthetic chemicals give better batch to batch consistency



## Rise in animal free Pharmaceutical ingredients

100's of Vegan & Vegetarian sites listing animal free prescription & OTC (over the counter medicines)

[www.vegansociety.com/healthcare/gps/animal-free-medications-list.aspx](http://www.vegansociety.com/healthcare/gps/animal-free-medications-list.aspx)

Many Muslim owned sites are now on the internet highlighting potential 'Haram' & Shubha ingredients in food, cosmetics and pharmaceuticals

## If you realised...



“Up to 60% of what you put on your bodies gets absorbed into your skin”

“Women on average may eat several tonnes of lipstick during their lifetime”

“Up to 5lb per year of chemicals may get absorbed into the body as a result of putting personal care products on every day”

**...wouldn't you want to check ingredients!!!**

# Dubious ingredients found in Foods, Cosmetics & Pharmaceuticals

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Bad news is:

- There are many 'Hidden' animal ingredients, far too many to list here
- Lots of new ingredients coming on the market every month
- Even a chemist may not be able to identify
- Ingredients can be from an animal, synthetic or vegetable source
- Only the manufacturer can provide assurance

## Difficult to Identify

Personal experiences working as a Halal consultant:

- Alcohol in Rose Essential Oil
- Emulsifiers of animal origin
- Glycerin of animal origin
- Alcohol in 'Halal' clear soap

# Hidden Animal Ingredients in Cosmetics



CI 77267 (bone charcoal) used as  
colourant, Collagen, Elastin

Emulsifiers – stearic acid, stearates,  
Mono and diglycerides Monostearates

Enzymes, Fatty acids, Gelatin,  
Glycerine, Hyaluronic Acid, Keratin,  
Oleic acid

Palmitin - Palmitic acid, Pepsin

Polysorbates

Squalene and Pentahydrosqualene

Stearic acid, Stearin, Tallow or  
Tallowate, Tween....

## And the anti-wrinkle & youth promoting ingredients???

Snake Venom

Mink Oil

Emu Oil

Snail Slime

Botox

Squalene

Placenta....

# Hidden Animal Ingredients in Pharmaceuticals



Animal products can usually be found as “inactive” ingredients

Albumin (serum albumin from blood serum),  
Enzymes, Fatty acids, Gelatin,  
Glycerine, Stearates, Mono and diglycerides  
Monostearates, Oleic acid  
Stabilizers, Stearic acid...

Vaccines can be cultured in monkey kidney cells, blood serums, guinea pig embryo cells or residual proteins, chicken embryo and embryonic fluid and human diploid cells from aborted foetal tissue...

# Hidden Animal Ingredients in Food



Animal gelatins - candies, marshmallows, flavourings...

Gelatin is also a common food stabilizer used in items like mayonnaise and ice cream, "lite" products and frozen foods

Animal fats are used in many foods including oleo margarine, shortenings, pastas, and salad dressings



# Hidden Animal Ingredients in Food Processing



Animal products are used to process foods - purified bone ash is used to refine sugar, filter bottled water and animal fats may be used to control foam in making syrups

Gelatins are used to clarify beverages

Rennet commonly found in cheese and food made from cheese is commonly obtained from animals

# Dubious ingredients found in Food, Cosmetics & Pharmaceuticals



- Make sure the label states it is 'Free from Animal Ingredients'
- Look at Vegetarian, Vegan or **Muslim consumer sites** which show which ingredients are likely to be from an animal source

For more information read my articles:

**Pharmaceuticals: A Complex Alien World**

**The Halal Journal Jan/Feb 2010**

**Skincare: Beyond the Surface**

**The Halal Journal May/June 2010**

## Packaging

- Many synthetics we use around the house can contain some animal products
- Plastic and rubbers can be made using fatty acids which come from animal fats
- Glue made from cow hide is preferred when binding books because animal glue can withstand high temperatures
- Plastic, cardboard and paper containers, the cellophane and wax paper used to keep foods fresh and packages sealed, and the ink and glue used on the label, can all involve animal products

## Summary

- A large number of potentially Haram or Shubha ingredients can be found in cosmetics and pharmaceuticals
- Not just ingredients but also processing and even packaging can render a product Haram or Shubha
- Halal status needs to take into consideration not just ingredients but also production and packaging

## Halal Certification Process

- European Halal Authority – set up in 2006 in UK
- Specialising in Non-Food, Cosmetics, Pharmaceuticals & Speciality Chemical Halal certification
- Zero tolerance policy on Alcohol, Irradiation and Genetically Modified Organisms

**[www.europeanhalalauthority.org](http://www.europeanhalalauthority.org)**

# Halal Certification Process

Detailed ingredients check to see if they conform to Halal status

- Annual Factory Audit to check for
  - ✧ Segregation & Clear labelling
  - ✧ Halal raw materials **in** and Halal finished goods **out** paper trail
  - ✧ Cleaning Schedule
  - ✧ Halal Training
  - ✧ Halal Packaging and Transport
  - ✧ Halal Testing - in progress

# IHI Standards

For detailed information, contact myself or look at:

DRAFT INTERNATIONAL HALAL INTEGRITY  
ALLIANCE STANDARD

on

**HALAL COSMETICS AND PERSONAL CARE**

## But is Halal just about ingredients & manufacturing?

“One day I was looking at baby shampoo and noticed that it was certified Halal (made in ...) but at the same time it had a lot of these chemicals that cause harm to our bodies. My question is whether you believe these types of products should be allowed to be certified Halal as I always believed (that) things that harm our bodies were also Haram?”

**Harm = Haram**



## Halal should be Tayyib

“O (you) Messengers! Eat of at-Tayyibat (all things good and pure), and do righteous deeds. I most certainly know what you do.” (Quran 23:51)

**Tayyib = Wholesome, Pure & Clean**

For Cosmetics/Pharmaceuticals and Food  
**Tayyib = Natural, Organic & Free from Harmful Ingredients**

## Halal should be 'Green' or Eco-Ethical

Many references in the Holy Quran and Hadits about the importance of caring for the **Body**, our **Environment, Animals**, Corporate Social Responsibility (**CSR**) and **Charity**

# Halal should be about the 3 P's

**P**eople – Pure & wholesome ingredients

**P**lanet – Environmentally friendly

**P**rofits - % of profits going to Charities

# Saaf Pure Skincare is a Halal and eco-ethical brand

Gain non-Muslim consumer confidence by marketing Halal as synonymous with Purity and Ethics

Back up of 'Green' claims by getting accreditations by credible third party organisations.

Recycled packaging, charitable responsibilities and donating 10% of profits to charity.

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Naturewatch



حلال



# Halal is for Everyone

Not just for Muslim Consumers, but for any Consumer who is looking for **Integrity**, **Quality**, and **Purity** in their lifestyle products



# Summary



- Halal status goes beyond alcohol & pork free but should take into consideration the element of **Tayyib** and **Eco-Ethical**
- These principles are laid out in the Holy Quran 1400 years ago, well before the start of Western 'Green' movement
- Halal certification can complement other 'green' accreditations to bring Halal products in line with the global eco-ethical trend
- Muslim consumers are looking for Halal lifestyle products whilst also wanting products which do not harm their bodies, the environment and the animal kingdom

*“What’s Next, Halal Cars?”*

**Thank you**

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