



EVALUATION OF AVOCADO FATS FROM MALAYSIAN CULTIVARS FOR HALAL FAT FORMULATION

TECHNOLOGY DESCRIPTION

The technology is a formulation to evaluate avocado fats for Halal fat formulation

TECHNOLOGY FEATURES

Formulation produced using the Avo-1 fat and palm stearin IV in two different ratios yielded blends which are similar to lard (porcine source). Both blends were further tested for thermal stability and the PS14:Avo-1:CB (6.5:84.9:9.5) was found to exhibit best compatibility in terms of thermal behavior. This plant-based fat formulation is a novel discovery which has high potential in replacing lard from porcine source. Ingredients used in formulating the substitute fat are raw materials available locally. The avocado derived fat is healthier as it is rich in vitamin E, contains high polyphenol and is nutritious than any animal fats currently available in the market. It fulfills the call for a healthy fat substitute compared to lard and can be utilized widely in the 'halal' food production, bakery, meat and cosmetic productions to fulfill the religious needs.

ADVANTAGES

- Healthier as it is rich in vitamin E
- Contains high polyphenol and is nutritious

INDUSTRY OVERVIEW

Prospect: Halal ingredient suppliers, Halal food manufacturers, Halal cosmetic manufacturers

The halal food market has grown quickly over the past decade, and is now worth an estimated \$632 billion annually on a global scale. Malaysia exported \$9.8 billion worth of halal products in 2013. Malaysia's halal cosmetics exports grew by a third from 2010 to 2012. In 2011, there were 114 local companies certified "Halal" and a total of 3,493 halal cosmetics and personal care products, including color cosmetics, hygiene products for skin, hair and oral, baby products and perfume. The market size of Halal personal care products is currently estimated to be worth approximately USD560 million. The market for beauty and grooming products in the Middle East as a whole is said to be currently growing at 12 per cent per annum, with cosmetic-related sales valued at USD2.1 billion last year.



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