

Suchada Suttamit 2007: Development of Skin Care Cream from Peanut Oil. Master of Science (Agro-Industrial Product Development), Major Field: Agro-Industrial Product Development, Department of Product Development. Thesis Advisor: Assistant Professor Hathairat Rimkeeree, Ph.D. 159 pages.

The aim of this research was to develop skin care cream from peanut oil. According to the consumer survey, 81.00% of consumers were interested in buying this product because the product has natural ingredient. In process development of peanut oil production, it was found that the suitable condition was roasting peanut at 175°C for 3 minutes which gave highest %yield of peanut oil. Then oil was bleached by 5% of activated carbon at 95°C for 25 minutes. The induction time of the bleached oil was 8.30 hours. Peanut oil was compared in basic formula with other vegetable oils, it was found that peanut oil cream has Transepidermal Water Loss not significantly different from that of jojoba oil cream. The formulation of skin care cream from peanut oil consisted of following main ingredients : 13.00% of Peanut oil, 4.54% of Dimethicone, 5.00% of Glycerine, 72.91% of Water (Reverse Osmosis) and 0.30% of Orchid scent. The qualities of peanut oil cream was 10,820.30 cP of viscosity, 6.87 of pH, white color with L* a* b* value of 90.27, -0.88, 0.93 respectively and no separation of water phase and oil phase. The total plate count of bacteria and yeast/mold were less than 10 colony/g. The clinical test showed that protecting Transepidermal Water Loss was 2.50 hours. Total cost of skin care cream from peanut oil was 46 baht/bottle (250 g). The consumer test showed that 89.00% of consumers accepted the product and the overall liking was like moderately.

Student's signature

Thesis Advisor's signature

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