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Specification : Inhaler (Yaa Dome) : Stimulating Formula (Manose PR-0019)

(Application : For inhalation)

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1. Name : Inhaler (Yaa Dome) : Stimulating Formula
  2. Active Compositions : Eucalyptus oil, menthol and others
  3. FDA Registration No. : In the process of cosmetic product notification with Thai FDA
  4. Characteristics
    - Physical appearance : Light yellowish clear solution
    - pH : 5
    - Odor : Light herbal odor
  5. Standardization : HPLC fingerprint using  $\gamma$ -oryzanol as a marker
  6. Biological activities :
    - Antioxidative activity by DPPH free radical scavenging at the  $SC_{50}$  value of 12.46 mg/ml in comparing to the standard, ascorbic acid which gave the  $SC_{50}$  value of 0.13 mg/ml
    - Anti-inflammatory activity by inhibition of denaturation by heat of albumin from egg white with the  $IC_{50}$  value of 15.13 mg/ml in comparing to the standard inflammatory drug, diclofenac which gave the  $IC_{50}$  value of 1.90 mg/ml
    - Immunomodulatory activity by the induction of phagocytosis by neutrophil with the percentage of 21.06 % in comparing to lipopolysaccharide (LPS), the positive control, which gave the percentage of 39.80 %
  7. Clinical Performance : -
  8. Microbial Contamination : No pathogenic microorganism contamination. The amounts of the aerobic bacteria, yeast and fungi are less than 1,000 cfu/g which is in the acceptable range of Thai FDA, Ministry of Public Health

- 9. Safety Evaluation : No skin irritation on human volunteers/ No cytotoxicity on human gingival fibroblasts
- 10. Stability : Physically stable at 45 °C for 3 months
- 11. Shelf life at 30 °C : 2-3 years
- 12. Indication and use : For inhalation when needed
- 13. Packaging and Storage : 1-2 ml in an inhaler tube or bottle or in tight and light protection container in cool place
- 14. Precaution : -
- 15. Cost : Please request