
**Specification : Cleansing and Whitening Herbal Dry Foam
(Manose PR-0022)**

(Application : Cleansing/Anti-inflammation/Antioxidant/Skin whitening/Anti-acne)

-
1. Name : Cleansing and Whitening Herbal Dry Foam
 2. Active Compositions : Mixed Thai medicinal plant extracts of Laurel Clockvine (*Thunbergia laurifolia* Lindl.) and Perilla (*Perilla frutescens* (L.) Britton)
 3. FDA Registration No. : 50-1-6500000209
 4. Characteristics
 - Physical appearance : Light green fine powder
 - pH : 6.49
 - Odor : Herbal odor
 5. Standardization : HPLC fingerprint using linoleic acid as a marker
 6. Biological activities :
 - Whitening activity by tyrosinase inhibition activity with the IC₅₀ value of 27.03±19.70 mg/ml which is 0.001 fold of kojic acid (IC₅₀ value = 0.03±0.00 mg/ml)
 - Anti-inflammatory activity by inhibition of nitric oxide release in macrophage (RAW 264.7) cells of 21.47±8.68% at 0.1 mg/ml which is 0.75 fold of triamcinolone acetonide, the standard anti-inflammatory drug (28.29±4.29%)
 - Antioxidative activity by DPPH radical scavenging with the SC₅₀ value of 5.77±1.34 mg/ml which is 0.005 fold of ascorbic acid (SC₅₀ value = 0.03±0.01 mg/ml)

- Anti-acne activity at 5 mg by the inhibition of *Cutibacterium acnes* with the inhibition zone of 30.45 ± 2.10 mm which is 0.52 fold of the standard clindamycin at 0.002 mg (57.90 ± 0.67 mm)
- 7. **Microbial Contamination** : No pathogenic microorganism contamination and the amounts of the aerobic bacteria, yeast and fungi are less than 1,000 cfu/g which is in an acceptable range of the Thai FDA, Ministry of Public Health
- 8. **Safety Evaluation** : No cytotoxicity on human skin fibroblasts with cell viability of $109.03 \pm 5.79\%$ at 0.1 mg/ml
No skin irritation in human volunteers by the 4-hour closed patch test
- 9. **Stability** : Physically stable by the heating-cooling process (45 and 4 °C) of 6 cycles and stable at 4, 25 and 45 °C for 12 weeks
- 10. **Shelf life at 30 °C** : 5 years
- 11. **Indication and use** : Pour the powder onto the hand palm, mix with clean water and rub to foam, put on the face, massage and then rinse off with clean water
- 12. **Packaging and Storage** : 0.5 gram per piece / keep in cool place and protected from light
- 13. **Precaution** :
 - For external use only
 - Avoid getting into eyes
 - Rinse off and stop using when there is any undesirable effect
- 14. **Cost** : Please request