

Specification : Face Mask Manose (Manose PR-0007)

(Application : For whitening, anti-wrinkle and anti-acne)

1. Name : Face Mask Manose
2. Active Compositions : Mixed Thai medicinal plant extracts of Monkey Jack/ (*Artocarpus lacucha*), Kot-Pung-Pla/ (*Terminalia chebula* gall) and Tumeric/ (*Curcuma longa* Rhizome) encapsulated in nanovesicles
3. FDA Registration No. : In the process of cosmetic product notification with Thai FDA
4. Characteristics
 - Physical appearance : Yellowish cream
 - pH : 5.15
 - Odor : Light specific herbal odor
 - Particle size : 641.31 ± 108.05 nm
5. Standardization : HPLC fingerprint using gallic acid as a marker
6. Biological activities :
 - The two plant extracts exhibit anti-acne activity by the growth inhibition of *P. acnes* with the inhibition zone of 25.76 ± 5.76 and 10.22 ± 0.81 nm, respectively at 200 mg/ml (The inhibition zone of the standard anti-bacterial drug, clindamycin at 0.002 mg at 42.96 ± 3.05 nm)
 - Antioxidative activity by DPPH radical scavenging with the SC_{50} value of 0.93 ± 0.03 mg/ml in comparing to the standard anti-oxidant, vitamin C (0.04 ± 0.02 mg/ml)
 - Anti-inflammatory activity by the inhibition of nitric oxide release in macrophage (RAW 264.7) of $10.93 \pm 1.01\%$ (at 0.5 mg/ml) which is 0.65 fold of the standard anti-inflammatory drug, triamcinolone acetonide ($16.85 \pm 2.25\%$ at 0.5 mg/ml)

- Anti-inflammatory activity by the heat denaturation inhibition of albumin white egg with the IC₅₀ value of 1.27±0.02 mg/ml which is 0.86 fold of the standard anti-inflammatory drug, diclofenac (IC₅₀ value of 1.09±0.03 mg/ml)
 - Anti-inflammatory activity in EPP (ethyl phenyl propiolate) induced ear edema of Wistar rats at 30 minutes of 75.43±14.93% which is 1.33 folds of the standard anti-inflammatory diclofenac gel (1%) (56.57±12.20%)
7. **Clinical Performance** : Whitening effect in human volunteers after 4 weeks application
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 in human volunteers by the closed patch test
10. **Stability** : Pass the physical and chemical stability tests by the heating cooling process (45 and 4 °C) for 6 cycles
11. **Shelf life at 30 °C** : 3 years
12. **Indication and use** : Apply on face and neck and leave for 10-20 minutes, then wipe off with tissue paper before cleansing with face cleanser or water. Use twice a week before bed-time.
13. **Packaging and Storage** : 90 grams in a tube/ keep in dry and cool place protected from light
14. **Precaution** :
 - For external use only
 - Avoid getting into eyes
 - Rinse off and stop using when there is any undesirable effect

15. Cost : Please request



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