

Specification : Body Lotion Spray (Manose PR-0021)

(Type 1 of Hazardous Material Control)

(Application : For mosquito repellent and anti-inflammation)

-
1. Name : Body Lotion Spray
 2. Active Compositions : Aromatic volatile oil from Thai medicinal plants including Citronella (*Cymbopogon nardus*), Kaffir Lime (*Citrus hystrix* DC.), Hairy Basil (*Ocimum basilicum*, Lour) and Orange (*Citrus reticulata*, Blanco) encapsulated in nanoparticles
 3. FDA Registration No. : 47/59
 4. Characteristics
 - Physical appearance : Light yellowish clear solution
 - pH : 5
 - Odor : Slight odor of citronellal
 5. Standardization : HPLC fingerprint using citronellal as a marker
 6. Biological activities :
 - Anti-inflammatory activity by the inhibition of nitric oxide release in macrophage (RAW 264.7) of 59.39±1.58% at 5 mg/ml which is 1.39 folds in comparing to the standard anti-inflammatory drug, triamcinolone acetonide of 42.59±2.28% at 0.5 mg/ml
 - Anti-inflammatory activity by heat denaturation inhibition of albumin from egg white with the IC₅₀ value of 13.44±1.90 mg/ml which is 0.18 fold of the standard anti-inflammatory drug, diclofenac (the IC₅₀ value of 2.38±0.03 mg/ml)
 - Anti-inflammatory activity in EPP (ethyl phenyl propiolate) induced ear edema of Wistar rats at 30 minutes of 71.43±11.61 % which is 1.26 folds in comparing to the standard anti-inflammatory diclofenac gel (1%) (56.57±12.20%)

-
7. **Clinical Performance** : Reduce inflammation and pain from insect bite/ insect repellent
 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** : Physically stable by the heating-cooling process (45 and 4 °C) of 6 cycles
 11. **Shelf life at 30 °C** : 3-5 years
 12. **Indication and use** : Spray on skin or clothes and pets for mosquito and insect repellent with the sustained effect for 3-5 hours/ reduce inflammation and pain from insect bites
 13. **Packaging and Storage** : 25 ml in a bottle with sprayer/ keep in dry and cool place protected from light
 14. **Precaution** :
 - For external use only
 - Avoid from inhalation and get into eyes
 - Rinse off and stop using when there is any undesirable effect
 15. **Cost** : Please request



Body Lotion Spray