

Specification : Viola Manose Cream (Manose PR-0029)

(Application : For anti-wrinkle and skin lightening)

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1. Name : Viola Manose Cream
 2. Active Compositions : Purple glutinous rice (*Oryza sativa* Linn.) extract entrapped in nanoparticles
 3. FDA Registration No. : 50-1-6600018663
 4. Characteristics
 - Physical appearance : Purple-red semi-solid
 - pH : 7.28
 - Odor : Light specific herbal odor
 5. Standardization : HPLC fingerprint using anthocyanin (cyanidin-3-glucoside) as a marker
 6. Biological activities :
 - *In vitro* tyrosinase inhibition activity with the IC₅₀ value of 128.07±20.34 mg/ml (IC₅₀ value of kojic acid = 0.006±0.00 mg/ml)
 - Melanin inhibition activity in melanoma (B16F10) of 33.48±8.59% which is 0.58 time of kojic acid (57.26±2.43%)
 - Tyrosinase inhibition activity in melanoma (B16F10) of 38.42±14.59% which is 0.62 time of kojic acid (62.40±9.57%)
 - Antioxidant activity by DPPH radical scavenging with the SC₅₀ value of 13.98±1.59 mg/ml which is 0.0014 time of vitamin C (SC₅₀ value of 0.02±0.00 mg/ml)
 - Collagenase inhibition activity with the IC₅₀ value of 2221.32±882.06 mg/ml (IC₅₀ value of vitamin C = 0.022±0.001 mg/ml)

- Elastase inhibition activity with the IC₅₀ value of more than 1000 mg/ml (IC₅₀ value of epigallocatechin gallate; EGCG = 0.16±0.04 mg/ml)
 - Hyaluronidase inhibition activity with the IC₅₀ value of more than 1000 mg/ml (IC₅₀ value of disodium cromoglycate; DSCG = 0.15±0.06 mg/ml)
7. **Clinical Performance** : Wrinkle reduction at 29.17±5.36% 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 cytotoxicity on human skin fibroblasts at 1 mg/ml with the cell viability of 95.03±3.64%
- No skin irritation in human volunteers by the 4h 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** : 2 – 5 years
12. **Indication and use** : Apply and rub gently daily on the wrinkle of face after cleansing in the morning and evening
13. **Packaging and Storage** : 30 grams in a bottle / keep in dry and cool place protected from light
14. **Precaution** : Rinse off and stop using when there is any undesirable effect
15. **Cost** : Please request

Reference :

Manose In-house Project “Development of anti-aging and whitening cream containing purple glutinous rice extract entrapped in nanoparticles” Manose Health and Beauty Research Center (www.manose.co), unpublished, 2022.