

Specification : Mixed plant extract loaded cyclodextrin suspension /

สารสกัดสมุนไพรผสมเก็บกักในไซโคลเด็กซ์ตริน

(Manose RM-0051)

(Application : An active ingredient for anti-aging and whitening cosmetics /

สารสำคัญในผลิตภัณฑ์เครื่องสำอางชะลอวัยและช่วยให้ผิวขาว)

1. Name of the raw material : Mixed plant extract loaded in cyclodextrin material
2. Active components : Gallic acid, resveratrol, curcumin, tannin และ phenolic compounds
3. Common and scientific name/
Family of the plant : Terminalia Gall (*Terminalia chebula* Retz. gall)/
COMBRETACEAE, Monkey Jack (*Artocarpus lakoocha* Roxb.)/
MORACEAE, Golden shower (*Cassia fistula* L.)/
LEGUMINOSAE-
CAESALPINOIDEAE and Turmeric (*Curcuma longa* L.)/
ZINGIBERACEAE
4. Physical appearance : Light brownish solid with specific herbal odor
5. pH : 5 – 7
6. Standardization : HPLC fingerprint using gallic acid, curcumin, tannin and resveratrol as markers

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7. Solubility : Soluble in water and ethanol
 8. Microbial contamination : No pathogenic microorganism with less than 1,000 cfu/g of the total plate count of bacteria, yeast and fungi which is conformed to the Thai FDA regulation
 9. Biological activities :
 - Antioxidant activity by DPPH radical scavenging with the SC_{50} value of 2.43 ± 0.13 mg/ml (SC_{50} value of ascorbic acid = 0.02 ± 0.00 mg/ml)
 - Tyrosinase inhibition activity with the IC_{50} value of 1.15 ± 0.16 mg/ml (IC_{50} value of kojic acid = 0.03 ± 0.00 mg/ml)
 - Anti-inflammation activity of inhibiting denaturation by heat of albumin from egg white with the IC_{50} value of 2.53 ± 0.04 mg/ml (IC_{50} value of diclofenac = 0.19 ± 0.03 mg/ml)
 10. Animal / human performance test : Anti-aging and whitening in human volunteers⁽²⁾
 11. Safety : No skin irritation in human volunteers

12. Pharmaceutical, : Anti-aging / whitening cosmetics
food supplement
or cosmetic
applications
13. Recommended : 0.1 – 5 % w/w
concentrations in
the product
14. Storage : Keep in tight and light protection container at room
temperature
15. Precautions : None
16. Cost per kg : Please request

References

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