

Specification : Seven Golden Candle Sticks Leaf Extract/ สารสกัดใบชุมเห็ดเทศ
(Manose RM-0124)

(Application : An active ingredient for anti-fungal and anti-hair loss cosmetics/
สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านเชื้อราและป้องกันผมร่วง)

1. Name of the raw material : Seven Golden Candle Sticks Leaf Extract
2. Active components : Tannins, alkaloids, flavonoids, terpenes, anthraquinone, saponins, phenolic compounds and aloe-emodin⁽¹⁾
3. Common and scientific name/ Family of the plant : Seven Golden Candle Sticks (*Senna alata* (L.) Roxb.)/ LEGUMINOSAE-CAESALPINOIDEAE
4. Physical appearance : Dark-green solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using aloe-emodin as a marker
7. Stability of active constituent : Aloe-emodin is stable at room temperature and light protection condition
8. Solubility : Soluble in water and ethanol
9. 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
10. Biological activities : Anti-oxidant⁽¹⁾, anti-diabetic⁽²⁾, anti-microbial⁽¹⁾, anti-fungal⁽¹⁾, and anti-hair loss⁽¹⁾ activity
11. Animal / human performance test : Anti-diabetic activity in animals⁽²⁾
12. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats

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| 13. Pharmaceutical, food supplement or cosmetic applications | : | Anti-fungal, anti-hair loss, anti-microbial and anti-oxidant in cosmetics/ Anti-diabetic in food supplements |
| 14. Recommended concentrations in the product | : | 0.1-1.0% w/w in cosmetics and food supplements |
| 15. Storage | : | Keep in tight and light protection container at room temperature |
| 16. Precautions | : | None |
| 17. Cost per kg | : | Please request |

References

1. Oladeji SO, Adelowo FE, Oluyori AP, Bankole DT. (2020) Ethnobotanical description and biological activities of *Senna alata*. **Evidence-Based Complementary and Alternative Medicine**. Article ID 2580259.
2. Kazeem MI, Azeez G, Ashafa O. (2015) Effect of *S. alata* (L) Roxb (Fabaceae) leaf extracts on alpha-amylase, alpha-glucosidase and post prandial hyperglycemia in rats. **Tropical Journal of Pharmaceutical Research**. 14(10): 1843-1848.
3. Manose In-house Project “The Development of Extracts from Thai Medicinal Plants for Anti-Fungal and Anti-Hair Loss”, **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2020.