

Specification : Picara Leaf Extract/ สารสกัดใบกระป๋องเจ็ดตัว (Manose RM-0128)

(Application : An active ingredient for anti-microbial and anti-acne cosmetics/

สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านเชื้อจุลินทรีย์และต้านสิว)

1. Name of the raw material : Picara Leaf Extract
2. Active components : Flavonoids, phenolic compounds, steroids, triterpenoids and quercetin⁽¹⁾
3. Common and scientific name/ Family of the plant : Picara (*Exoecaria cochinchinensis* Lour. var. *cochinchinensis*)/ EUPHORBIACEAE
4. Physical appearance : Brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using quercetin as a marker
7. Stability of active constituent : Quercetin s 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-microbial⁽¹⁾ and anti-acne⁽²⁾ activity
11. Animal / human performance test : None
12. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats
13. Pharmaceutical, food supplement or cosmetic applications : Anti-microbial and anti-acne cosmetics

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| 14. Recommended concentrations in the product | : | 0.1-1.0% w/w in cosmetics |
| 15. Storage | : | Keep in tight and light protection container at room temperature |
| 16. Precautions | : | None |
| 17. Cost per kg | : | Please request |

References

1. Nurhasana D, Febriansyah R, Avidlyandi, Yudha SS, Banon C, Oktiarni D, Adfa M. (2023) *In-vitro* antibacterial activity of *Excoecaria cochinchinensis* Lour's methanolic extracts and its combination with commercial drugs. **Jurnal Ilmu Kefamasian Indonesia**. 21(2): 179-185.
2. Leelapornpisid P, Chansakao S, Ittiwittayawat T, Pruksakorn S. (2005) Antimicrobial activity of herbal extracts on *Staphylococcus aureus* and *Propionibacterium acnes*. **Acta Horticulturae**. 679(679): 97-104.
3. Manose In-house Project "The Development of Extracts from Thai Medicinal Plants for Anti-Microbial and Anti-acne Activities", **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2020.