

Specification : Rambutan Rind Extract/ สารสกัดเปลือกผลเงาะ (Manose RM-0117)

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

สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านสิว)

1. Name of the raw material : Rambutan Rind Extract
2. Active components : Phenolic compounds, flavonoids, tannins and gallic acid⁽¹⁾
3. Common and scientific name/ Family of the plant : Rambutan (*Nephelium lappaceum* L.)/
SAPINDACEAE
4. Physical appearance : Brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using gallic acid as a marker
7. Stability of active constituent : Gallic acid 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-cancer⁽¹⁾, anti-diabetic⁽²⁾, anti-microbial⁽¹⁾ and anti-acne⁽³⁾ 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-acne, anti-microbial and anti-oxidant in cosmetics/ anti-cancer and 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. Tsong JL, Goh LPW, Gansau JA, How SE. (2021) Review of *Nephelium lappaceum* and *Nephelium ramboutan-ake*: A high potential supplements. **Molecules**. 26: 7005.
2. Subramaniam S, Radhakrishnan A, Chakravarthi S, Palanisamy UD, Haleagrahara N. (2015) Antihyperglycemic effect of *Nephelium lappaceum* rind extract in high-fat diet induced diabetic rats. **International Journal of Pharmacology**. 11: 542-551.
3. Manose In-house Project “The Development of Extract from Thai Medicinal Plants for Anti-acne”, Manose Health and Beauty Research Center (www.manose.co), unpublished, 2020.