

Specification : Mangosteen peel extract /

สารสกัดเปลือกมังคุด (Manose RM-0019)

(Application : An active ingredient for anti-inflammatory/ anti-cancer food supplements and anti-wrinkle cosmetic products/ สารสำคัญในผลิตภัณฑ์เสริมอาหารต้านการอักเสบ/ ต้านมะเร็ง และผลิตภัณฑ์เครื่องสำอางต้านริ้วรอย)

1. Name of the raw material : Mangosteen peel extract
2. Active components : xanthones, flavonoids and triterpenes⁽¹⁾
3. Scientific name of the plant / Family : Mangosteen : *Garcinia mangostana* L./ GUTTIFERAE
4. Physical appearance : Dark brownish solid with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using α -mangostin as a marker⁽²⁾
7. Solubility : Soluble in water and ethanol
8. Microbial contamination : No pathogenic microorganism/ Total plate count of less than 1,000 cfu/g of the bacteria, yeast and fungi which is conformed to the Thai FDA regulation
9. Biological activities : Anti-inflammation⁽³⁾, anti-bacteria⁽⁴⁾, anti-cancer⁽⁵⁾ and anti-oxidation⁽⁶⁾
10. Animal / human performance test : Anti-inflammation⁽³⁾, anti-cancer⁽⁵⁾ and anti-oxidation⁽⁶⁾ in animals
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food supplement or cosmetic applications : Anti-inflammatory and anti-cancer food supplement and anti-wrinkle cosmetics products

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13. **Recommended concentrations in the product** : 0.1 – 5 % w/w
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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3. Shankaranarayan D, Gopalakrishnan C, Kameswaran L. (1979) Pharmacological profile of mangostin and its derivatives. Arch. Int. **Pharmacol. Ther.** 239: 257–269
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6. Devi Sampath P, Vijayaraghavan K. (2007) Cardioprotective effect of α -mangostin, a xanthone derivative from mangosteen on tissue defense system against isoproterenol-induced myocardial infarction in rats. **Journal of Biochemical and Molecular Toxicology**. 21: 336–339