

Specification of Mangosteen peel extract (Manose RM-019)

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 peel (*Garcinia mangostana* L.)/
GUTTIFERAE
4. **Physical appearance of the raw material** : Dark brownish solid with specific odor
5. **pH of the raw material** : 5
6. **Standardization of the raw material** : HPLC fingerprint using α -mangostin as a marker⁽²⁾
7. **Solubility** : Soluble in water and ethanol
8. **Microbial contamination** : None
9. **Biological activities** : Anti-inflammation⁽³⁾, anti-bacterial⁽⁴⁾, anti-cancer⁽⁵⁾
and anti-oxidant⁽⁶⁾
10. **Safety** : No skin irritation in human volunteers
11. **Animal / human performance test** : Anti-inflammation⁽³⁾, anti-cancer⁽⁵⁾ and anti-oxidant⁽⁶⁾
in animals
12. **Pharmaceutical, food supplement or cosmetic applications**
: Anti-inflammation and anti-cancer food supplement
products and anti-wrinkle cosmetic products
13. **Recommended concentrations in the product (%)**
: 0.1-5 %
14. **Storage** : Keep in tight and light protection container at room
temperature
15. **Precautions (if any)** : None
16. **Cost per kg** : -

References

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3. Shankaranarayan D, Gopalakrishnan C, Kameswaran L. Pharmacological profile of mangostin and its derivatives. *Arch. Int. Pharmacol. Ther.* 1979, 239: 257–269.
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5. Aisha A, Abu-Salah K, Ismail Z, Abdul MA. *In vitro* and in vivo anti-colon cancer effects of *Garcinia mangostana* xanthones extract. *BMC Complementary and Alternative Medicine* 2012, 12: 104–112.
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