

Specification : Mixed Thai Medicinal Plant Extract for Anti-inflammation/

สารสกัดสมุนไพรไทยผสมเพื่อด้านการอักเสบ

(Manose RM-0044)

(Application : An active ingredient for topical anti-inflammatory products/

สารสำคัญในผลิตภัณฑ์ทาภายนอกสำหรับการอักเสบ)

1. Name of the raw material : Mixed Thai Medicinal Plant Extract for Anti-inflammation
2. Active components : 10 % w/w of extracts from Thai medicinal plants including Mangosteen and Myrobalan gall
3. Common and scientific name/ Family of the plant : Mangosteen (*Garcinia mangostana* L.) / GUTTIFERAE and Myrobalan gall (*Terminalia chebula* Retz.) COMBRETACEAE
4. Physical appearance : Light yellowish liquid with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using gallic acid as a marker⁽¹⁾
7. Solubility : Soluble in water and ethanol
8. 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
9. Biological activities : Anti-inflammatory⁽²⁾ and anti-microbial activities⁽²⁾
10. Animal / human performance test : Anti-inflammation in animals⁽³⁾
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food supplement or cosmetic applications : Anti-inflammatory and anti-microbial products

-
13. Recommended concentrations in the product : 1% w/w (in the product)
14. Storage : Keep in dry and cool place protected from light
15. Precautions : None
16. Cost per kg : Please request

References

1. Manosroi A, Jantrawut P, Akazawa H, Akihisa T, Manosroi J. (2010) Biological activities of phenolic compounds isolated from galls of *Terminalia chebula* Retz. (*Combretaceae*). **Natural Product Research**. 24(20): 1915-1926 (Corresponding author and co-authors are from Manose Health and Beauty Research Center)
2. Ibrahim MY, Hashim NM, Mariod AA, Mohan S, Abdulla MA, Abdelwahab SI, Arbab IA. (2016) α -mangostin from *Garcinia mangostana* Linn: An updated review of its pharmacological properties. **Arabian Journal of Chemistry**. 9: 317-329
3. Shankaranarayan D, Gopalakrishnan C, Kameswaran L. (1979) Pharmacological profile of mangostin and its derivatives. **Arch. Int. Pharmacol. Ther**. 239: 257-269