

Specification : Manose-AI-MIS-001 Extract/ สารสกัดมาโนเซเอไอ-เอ็มไอเอส-001
(Manose RM-0107)

(Application : An active ingredient for anti-inflammatory food supplements/
สารสำคัญในผลิตภัณฑ์เสริมอาหารต้านการอักเสบ)

1. Name of the raw material : Manose-AI-MIS-001 Extract
2. Active components : Naphthoquinones, flavonoids, alkaloids, glycosides, saponins, steroids, tannins, triterpenoids, coumarins, phenolic compounds and plumbagin⁽¹⁾
3. Common and scientific name/ Family of the plant : White Leadwort (Whole plant) (*Plumbago zeylanica* L.)/ PLUMBAGINACEAE
4. Physical appearance : Dark brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using plumbagin as a marker
7. Stability of active constituent : Plumbagin 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-inflammatory activity⁽²⁾
11. Animal / human performance test : Anti-inflammatory activity in animals⁽²⁾
 - Anti-inflammatory activity in rats by the hind paw edema assay was comparable with prednisolone when taken orally.
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-inflammatory in food supplements
14. Recommended concentrations in the product : 0.1-1.0% w/w in food supplements
15. Storage : Keep in tight and light protection container at room temperature
16. Precautions : -
17. Cost per kg : Please request

References

1. Shukla B, Saxena S, Usmani S, Kushwaha P. (2021) Phytochemistry and pharmacological studies of *Plumbago zeylanica* L.: a medicinal plant review. **Clinical Phytoscience**. 7: 34.
2. Manose In-house Project “The Development of Extracts from Thai Medicinal Plants for Anti-Inflammatory”, **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2015.