

Specification : Galangal extract / สารสกัดข่า

(Manose RM-0056)

(Application : An active ingredient for cosmetics / topical products and anti-inflammatory, microbial inhibition and blood pressure lowering food supplements / สารสำคัญในผลิตภัณฑ์เครื่องสำอาง/ผลิตภัณฑ์ใช้ทาภายนอก และเสริมอาหารสำหรับต้านการอักเสบ ยับยั้งการเจริญของเชื้อจุลินทรีย์ และลดความดัน)

1. Name of the raw material : Galangal extract
2. Active components : Flavonoids, galangin and volatile oils⁽¹⁾
3. Common and scientific name/ Family of the plant : Galangal (*Alpinia galanga* (L.) Willd.) ZINGIBERACEAE
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 6
6. Standardization : HPLC fingerprint using galangin 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-oxidative⁽²⁾, anti-inflammatory⁽²⁾, anti-bacterial⁽³⁾, anti-fungal⁽²⁾, anti-diabetic⁽²⁾ anti-cancer⁽²⁾ and blood pressure lowering activities
10. Animal / human performance test : Anti-inflammatory activity in animals⁽³⁾
11. Safety : No skin irritation in human volunteers

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12. Pharmaceutical, food supplement or cosmetic applications : Cosmetics and topical use for anti-pain, sprain and anti-inflammatory / food supplements
 13. Recommended concentrations in the product : 0.1 – 1.0 % w/v for cosmetics and topical products
 14. Storage : Keep in tight and light protection container at room temperature
 15. Precautions : None
 16. Cost per kg : Please request

References

1. Tungmunnithum D, Tawaka N, Uehara A, Iwashina T. (2020) Flavonoids profile, taxonomic data, history of cosmetic uses, anti-oxidant and anti-aging potential of *Alpinia galanga* (L.) Willd. **Cosmetics**. 7 (4) : 89
2. Chouni A and Paul S. (2018) A review on phytochemical and pharmacological potential of *Alpinia galanga* (Linn.) **Pharmacognosy Journal**. 10 (1) : 9-15
3. Chandrakanthan M, Handunnetti SM., Sirimal G, Premakumara A and Kathirgamanathar S. (2020) Topical anti-inflammatory activity of essential oils of *Alpinia calcarata* Rosc., its main constituents, and possible mechanism of action. **Evidence-based complementary and alternative medicine**. Article ID 2035671