

Specification : Shallot Bulb Extract/ สารสกัดหัวหอมแดง (Manose RM-0120)

(Application : An active ingredient for wound-healing cosmetics/

สารสำคัญในผลิตภัณฑ์เครื่องสำอางรักษาแผลเป็น)

1. Name of the raw material : Shallot Bulb Extract
2. Active components : Flavonoids, phenolic compounds, tannins, saponins, glycosides, sulfur compounds and quercetin⁽¹⁾
3. Common and scientific name/ Family of the plant : Shallot (*Allium ascalonicum* L.)/ ALLIACEAE
4. Physical appearance : Brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using quercetin as a marker
7. Stability of active constituent : Quercetin 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-microbial⁽²⁾, anti-oxidant⁽²⁾, anti-inflammatory⁽²⁾, anti-diabetic⁽²⁾, anti-cancer⁽²⁾ and wound-healing⁽²⁾ activity
11. Animal / human performance test : Anti-diabetic⁽²⁾ and wound-healing⁽²⁾ activity in animals
12. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats
13. Pharmaceutical, food supplement or cosmetic applications : Wound-healing, anti-microbial, anti-oxidant and anti-inflammatory in cosmetics/ anti-diabetic and anti-cancer in food supplements

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| 14. Recommended concentrations in the product | : | 0.1-1.0% w/w in cosmetics and food supplements |
| 15. Storage | : | Keep in tight and light protection container at room temperature |
| 16. Precautions | : | None |
| 17. Cost per kg | : | Please request |

References

1. Adeyemo AE, Omoba OS, Olagunju AI, Josiah SS. (2023) Assessment of nutritional values, phytochemical contents, and antioxidant properties of Shallot (*Allium ascalonicum* L.) leaf and bulb. **Measurement: Food**. 10: 100091.
2. Moldovan C, Frumuzachi O, Bobata M, Barros L, Mocan A, Carradori S, Crisan G. (2022) Therapeutic uses and pharmacological properties of Shallot (*Allium ascalonicum*): A systematic review. **Frontiers in Nutrition**. 9: Article 903686.
3. Manose In-house Project “The Development of Extract from Thai Medicinal Plants for Wound-healing”, Manose Health and Beauty Research Center (www.manose.co), unpublished, 2023.