

Specification : Onion extract 5 % in propylene glycol /

สารละลายหอมหัวใหญ่ 5 % ใน propylene glycol (Manose RM-0068)

(Application : Wound healing and anti-inflammatory cosmetic products)

สารสำคัญในผลิตภัณฑ์เครื่องสำอางสำหรับสมานแผลและด้านการอักเสบ)

1. Name of the raw material : 5 % Onion extract in propylene glycol
2. Active components : Flavonoids, phenolic compounds, organo-sulfuric compounds⁽¹⁾
3. Common and scientific name/ Family of the plant : *Allium cepa* L. / ALLIACEAE
4. Physical appearance : Brown liquid with specific light herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint was constructed by using quercetin as a marker⁽²⁾. The quercetin content was 0.0001-0.0010 % w/w.
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-microbial⁽³⁾, anti-inflammatory⁽⁴⁾, wound healing effect⁽⁵⁾, and immunomodulatory effect⁽⁶⁾
10. Animal / human performance test : Anti-inflammatory⁽⁴⁾ and wound healing effect⁽⁵⁾ in human volunteers
11. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats

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| 12. | Pharmaceutical, food supplement or cosmetic applications | : | Wound healing and anti-inflammatory cosmetic products |
| 13. | Recommended concentrations in the product | : | 1-10 % in cosmetic or topical product |
| 14. | Storage | : | Keep in tight and light protection container at room temperature |
| 15. | Precautions | : | None |
| 16. | Cost per kg | : | Please request |

References

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3. Sharma K, Mahato M, Lee YR. Systematic study on active compounds as antibacterial and antibiofilm agent in aging onions. Journal of Food and Drug Analysis 2018, 26 (2): 518–528.
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