

Specification : Concentrated Date Fruit Extract /

สารสกัดเข้มข้นผลอินทผลัม (Manose RM-0023)

(Application : An active ingredient for female hormone replacement for menopause women, dyslipidemia patient food supplements and anti-aging cosmetics/ สารสำคัญในผลิตภัณฑ์เสริมอาหารทดแทนฮอร์โมนเพศหญิง สำหรับสตรีวัยทอง ผลิตภัณฑ์เสริมอาหารสำหรับผู้ป่วยไขมันในเลือดสูง และผลิตภัณฑ์เครื่องสำอางชะลอวัย)

1. Name of the raw material : Concentrated Date Fruit Extract
2. Active components : Anthocyanins, phenolic acids, sterols, carotenoids, procyanidins and flavonoids⁽¹⁾
3. Scientific name of the plant / Family : Dates (*Phoenix dactylifera* L.)/ PALMAE
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using gallic acid as a marker
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-oxidant⁽²⁾, serum lipid reduction⁽³⁾ and estrogenic effect
10. Animal / human : Anti-oxidant and serum lipid reduction in human

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- performance test volunteers⁽³⁾
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food supplement or cosmetic applications : Female hormone replacement food supplement products for menopause women, food supplement products for dyslipidemia patient and anti-aging cosmetics
13. Recommended concentrations in the product : 0.1 – 5 % w/w
14. Storage : Keep in tight and light protection container at room temperature
15. Precautions : None
16. Cost per kg : Please request

References

1. Baliga MS, Vittadas Baliga BR, Kandathil SM, Bhat HP, Vayalil PK. (2011) A review of the chemistry and pharmacology of the date fruits (*Phoenix dactylifera* L.). **Food Research International**. 44: 1812-1822
2. Vayalil PK. (2002) Antioxidant and antimutagenic properties of aqueous extract of date fruit (*Phoenix dactylifera* L. Areaceae). **Journal of Agricultural and Food Chemistry**. 50: 610-617
3. Rock W, Rosenblat M, Borochoy-Neori H, Volkova N, Judeinstein S, Elias M, Aviram M. (2009) Effects of date (*Phoenix dactylifera* L., Medjool or Hallawi Variety) consumption by healthy subjects on serum glucose and lipid levels and on serum oxidative status: a pilot study. **Journal of Agricultural and Food Chemistry**. 57: 8010-8017