

Specification : Longan Fruit Extract/ สารสกัดผลลำไย (Manose RM-0121)

(Application : An active ingredient for anti-oxidant and anti-cancer food supplements/

สารสำคัญในผลิตภัณฑ์เสริมอาหารต้านปฏิกิริยาออกซิเดชันและต้านมะเร็ง)

1. Name of the raw material : Longan Fruit Extract
2. Active components : Phenolic compounds, flavonoids, tannins and gallic acid⁽¹⁾
3. Common and scientific name/ Family of the plant : Longan (*Dimocarpus longan* Lour.)/ SAPINDACEAE
4. Physical appearance : Brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using gallic acid as a marker
7. Stability of active constituent : Gallic acid 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-oxidant⁽¹⁾, anti-cancer⁽¹⁾, immunomodulatory⁽¹⁾, whitening⁽¹⁾ and anti-fungal⁽²⁾ activity
11. Animal / human performance test : None
12. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats
13. Pharmaceutical, food supplement or cosmetic applications : Anti-oxidant, anti-cancer and immunomodulatory in food supplements/ whitening and anti-fungal in cosmetics

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

References

1. Zhang X, Guo S, Ho CT, Bai N. (2020) Phytochemical constituents and biological activities of Longan (*Dimocarpus longan* Lour.) fruit: A review. **Food Science and Human Wellness**. 9: 95-102.
2. Rangkadilok N, Tongchusak S, Boonhok R, Chaiyaroj SC, Junyaprasert VB, Buajeeb W, Akanimanee J, Raksasuk T, Suddhasthira T, Satayavivad J. (2012) *In vitro* antifungal activities of Longan (*Dimocarpus longan* Lour.) seed extract. **Fitoterapia**. 83(3): 545-553.
3. Manose In-house Project “The Development of Extract from Thai Medicinal Plants for Anti-oxidant and Anti-cancer”, Manose Health and Beauty Research Center (www.manose.co), unpublished, 2020.