

Specification : Medicinal Plant Extract for Blood Pressure Lowering/

สารสกัดสมุนไพรเพื่อลดความดันโลหิต (Manose RM-0049)

(An active ingredient for blood pressure lowering food supplements/

สารสำคัญในผลิตภัณฑ์เสริมอาหารลดความดันโลหิต)

1. Name of the raw material : Medicinal Plant Extract for Blood Pressure Lowering
2. Active components : Alpinetin, pinocembrin, cardamonin, boesenbergin A and pinostrobin
3. Common and scientific name/ Family of the plant : Kaempfer (*Boesenbergia rotunda* (L.) Mansf.)/
Zingiberaceae
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using boesenbergin A as a marker⁽¹⁾
7. Solubility : soluble in ethanol
8. Microbial contamination : No pathogenic microorganism with less than 1,000 cfu/g of bacteria, yeast and fungi which is conformed to the Thai FDA regulation
9. Biological activities : Blood pressure lowering activities of 2.13 folds of prazosin (dose at 2 mg/kg) using Tail-cuff method
10. Animal/ human performance test : Vasorelaxant effect in animals⁽²⁾
11. Safety : LD₅₀ > 5 g/kg BW in rats
12. Pharmaceutical, food supplement or cosmetic applications : Blood pressure lowering food supplements

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13. Recommended concentrations in the product : 355 mg / capsule
14. Storage : Keep in tight and light protection container at room temperature
15. Precautions : None
16. Cost per kg : Please request

References

1. Isa NM, Abdelwahab SI, Mohan S, Abdul AB, Sukari MA, Taha MME, Syam S, Narrima P, Cheah SCh, Ahmad S, Mustafa MR. (2012) *In-vitro* anti-inflammatory, cytotoxic and antioxidant activities of boesenbergin A, a chalcone isolated from *Boesenbergia rotunda* (L.) (fingerroot) **Brazilian Journal of Medical and Biological Research**. 45(6): 524-530
2. Adhikari D, Gong DS, Oh SH, Sung EH, Lee SO, Kim DW, Oak MH, Kim HJ. Vasorelaxant Effect of *Boesenbergia rotunda* and its active ingredients on an isolated coronary artery. **Plants**. 9(12): 1688