

Specification : MP4 medicinal plant recipe extract /

สารสกัดตำรับยาสมุนไพร MP4 (Manose RM-0026)

(Application : An active ingredient for female hormone replacement food supplements for menopause women / สารสำคัญในผลิตภัณฑ์เสริมอาหาร

ทดแทนฮอร์โมนเพศหญิงสำหรับสตรีวัยทอง)

1. Name of the raw material : MP4 medicinal plant recipe extract
2. Active components : Flavonoids, miroestrol, phytoestrogen
3. Common and scientific name/ Family of the plant : Containing White Kwao Krua (*Pueraria mirifica* (Airy Shaw & Suvat.))/ LEGUMINOSAE- PAPILIONOIDEAE, etc.
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using puerarin as a marker⁽¹⁾
7. Solubility : Soluble in 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 : Estrogenic effect
10. Animal / human performance test : Female hormone replacement in human volunteers⁽²⁾
11. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg BW in rats⁽³⁾

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12. **Pharmaceutical, food supplement or cosmetic applications** : Female hormone replacement food supplement products for menopause women
13. **Recommended concentrations in the product** : Content (mg) in the product : 103 mg/capsule
14. **Storage** : Keep in tight and light protection container at room temperature
15. **Precautions** : Discontinue using, if there is any adverse effect
16. **Cost per kg** : Please request

Reference

1. Ingham JL, Tahara S, Pope GS. (2002) Chemical components and pharmacology of the rejuvenating plant *Pueraria mirifica*. In: Keung WM, ed. **Pueraria: The genus Pueraria**. London: Taylor & Francis, 97–118
2. Muangman V, Cherd Shewasant W. (2001) Clinical trial of the phyto estrogen-rich herb, *Pueraria mirifica*. as a crude drug in the treatment of symptoms in menopausal woman. **Siriraj Medical Journal**. 53(5): 300-310
3. Chivapat S, Chavalittumrong P, Rattanajarasroj S, Chuthaputti A, Panyawong S. (2000) Toxicity Study of *Pueraria mirifica*. Airy Show et Suvatabandhu. **Bulletin of the Department of Medical Sciences**. 42(3): 202-223