

Specification : “Fräuleine” Mixed Thai Medicinal Plant Extract /

สารสกัดผสมจากสมุนไพรไทย Fräuleine

(Manose RM-0043)

(Application : An active ingredient for menopause women and
female hormone replacement products/

สารสำคัญในผลิตภัณฑ์สำหรับสตรีวัยทองและทดแทนฮอร์โมนเพศหญิง)

1. Name of the raw material : “Fräuleine” mixed Thai medicinal plant extract
2. Active components : Flavonoids and phytoestrogens
3. Common and scientific name/ Family of the plant : Common Bean (*Phaseolus vulgaris* L.) / FABACEAE, Asiatic Bitter Yam (*Dioscorea hispida* Dennst var *hispida*) / DIOSCOREACEAE and Soy Bean (*Glycine max* (L.) Merr.) LEGUMINOSAE
4. Physical appearance : Dark brownish solid with specific herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using genistein 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 : The extract gives estrogenic activity stimulation in MCF-7 cell line with % cell viability of 163.35 % which is 1.14 folds of estradiol
10. Animal / human performance test : Female hormone replacement in human volunteers

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| 11. Safety | : No toxicity with LD ₅₀ of more than 5 g/kg BW in rats |
| 12. Pharmaceutical, food supplement or cosmetic applications | : Tonic for menopause women/ female hormone replacement |
| 13. Recommended concentrations in the product | : 309 mg/day |
| 14. Storage | : Keep in tight and light protection container in a refrigerator at 4°C (3-4 years of shelf life) |
| 15. Precautions | : Not for children under 12 years and men |
| 16. Cost per kg | : Please request |

Reference

1. Kanchana P., Santha ML., Raja KD. (2016) A review on *Glycine max* (L.) Merr. (SOYBEAN). *World Journal of Pharmacy and Pharmaceutical*. 5(1) : 356-371