

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 material
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  
hispidata* Dennst var *hispidata*) / 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<sup>(1)</sup>
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
11. **Safety** : No toxicity with LD<sub>50</sub> 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