

Specification : Rhubarb extract / สารสกัดโอรุณน้ำเต้า
(Manose RM-0008)

(Application : An active ingredient for laxative and weight loss food supplements / สารสำคัญในผลิตภัณฑ์เสริมอาหารที่มีฤทธิ์เป็นยาระบายและลดน้ำหนัก)

1. Name of the raw material : Rhubarb extract
2. Active components : Anthraquinones, oxalic acid and tannins⁽¹⁾
3. Common and scientific name/ Family of the plant : Rhubarb (*Rheum officinale* Baill.)/
POLYGONACEAE
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using anthraquinones as a marker
7. Solubility : Soluble in water and 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 : Laxative and nephroprotective effect
10. Animal / human performance test : Resolve constipation in human volunteers⁽²⁾
11. Safety : No serious side effect in human volunteers⁽³⁾
12. Pharmaceutical, food : Laxative and weight loss food supplements

supplement or cosmetic

applications

13. Recommended concentrations in : 0.1-5 % w/w

the product

14. Storage : Keep in tight and light protection container at room temperature

15. Precautions : Must be careful about dehydration and mineral deficiency because of laxative effect

16. Cost per kg : Please request

References

1. Kemper KJ. (1999) *Rhubarb root (Rhuem officinale or R. palmatum)*. Long Wood Herbal Task Force. 1-15
2. Zhang Y, Zhang S, Shen L, Yan Z, Zhang H. (1986) Tiao Wei Cheng Qi Tang decoction with liquid diet in bowel cleansing. **Bulletin of Hunan Medical College**. 11: 299-302
3. Wang H, Song H, Yue J, Li J, Hou YB, Deng JL. (2012) *Rheum officinale* (a traditional Chinese medicine) for the treatment of chronic kidney disease. **Cochrane Database of Systematic Reviews**. 11(7) : CD008000