

Specification of Rhubarb extract (Manose RM-008)

1. **Name of the raw material** : Rhubarb extract
2. **Active components** : Anthraquinones, oxalic acid and tannins⁽¹⁾
3. **Scientific name of the plant / Family** : Rhubarb (*Rheum officinale* Baill.)/
POLYGONACEAE
4. **Physical appearance of the raw material** : Brownish solid with specific odor
5. **pH of the raw material** : 4
6. **Standardization of the raw material** : HPLC fingerprint using anthraquinones as a marker
7. **Solubility** : Soluble in water and ethanol
8. **Microbial contamination** : None
9. **Biological activities** : Laxative and nephroprotective effect
10. **Safety** : No skin irritation in human volunteers
11. **Animal / human performance test** : Resolve constipation in human volunteers⁽²⁾
12. **Pharmaceutical, food supplement or cosmetic applications**
: Laxative and weight loss food supplement products
13. **Recommended concentrations in the product (%)**
: 0.1-5 %
14. **Storage** : Keep in tight and light protection container at room
temperature
15. **Precautions (if any)** : Must not use in kidney disease patient, be careful
about dehydration and mineral deficiency because of
laxative effect
16. **Cost per kg** : -

References

1. Kemper KJ. *Rhubarb root (Rhuem officinale or R. palmatum)*. Long Wood Herbal Task Force 1999, 1-15.
2. Zhang Y, Zhang S, Shen L, Yan Z, Zhang H. Tiao Wei Cheng Qi Tang decoction with liquid diet in bowel cleansing. *Bulletin of Hunan Medical College* 1986; 11:299-302.