
Specification : Stevia leaf extract / สารสกัดใบหญ้าหวาน

(Manose RM-0020)

(Application : An active ingredient for foods/ pharmaceuticals/
food supplements for the substitution of sucrose for diabetes and
weight loss and moisturizer in cosmetic products / สารให้ความหวานในอาหาร
ยา ผลิตภัณฑ์เสริมอาหาร ใช้แทนน้ำตาลสำหรับผู้ป่วยเบาหวานหรือผู้ที่ต้องการ
ลดน้ำหนัก และเป็น moisturizer ในผลิตภัณฑ์เครื่องสำอาง)

1. Name of the raw material : Stevia leaf extract
2. Active components : Steviol glycosides, triterpenes, sterols and flavonoids⁽¹⁾
3. Scientific name of the plant / Family : Stevia (*Stevia rebaudiana* (Bertoni) Bertoni)/ COMPOSITAE
4. Physical appearance : Dark olive greenish solid with specific herbal odor
5. pH : 6
6. Standardization : HPLC fingerprint using stevioside as a marker
7. Solubility : Soluble in water

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- 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** : Sweetening agent with a sweetening potency of 250 times of sucrose with no calory, moisturizer in cosmetic and anti-oxidant⁽²⁾
 - 10. **Animal / human performance test** : Sucrose substitution in human volunteers⁽³⁾
 - 11. **Safety** : No skin irritation in human volunteers
 - 12. **Pharmaceutical, food supplement or cosmetic applications** : Sweetener substitute in foods/ pharmaceuticals/ food supplements for diabetes and weight loss and moisturizer in cosmetic products
 - 13. **Recommended concentrations in the product** : 0.1 – 5 % w/w
 - 14. **Storage** : Keep in tight and light protection container at room temperature

15. Precautions : None
16. Cost per kg : Please request

References

1. Madan S, Ahmad S, Singh GN, Kohil K, Kumar Y, Singh R, Garg M. (2010) *Stevia rebaudiana* (Bert.) Bertoni – A review. **Indian Journal of Natural Products and Resources**. 1(3): 267-286
2. Tadhani MB, Patel VH, Subhash R. (2007) *In vitro* antioxidant activities of *Stevia rebaudiana* leaves and callus. **Journal of Food Composition and Analysis**. 20: 323-329
3. Chan P, Tomlinson B, Chen YJ. (2000) A double-blind placebo controlled study of the effectiveness and tolerability of oral stevioside in human hypertension. **British Journal of Clinical Pharmacology**. 50: 215-229