

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
- 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⁾

An International Leader in Research and Development of Natural Products

ผู้นำระดับนานาชาติในการวิจัยและพัฒนาผลิตภัณฑ์ธรรมชาติ

-
- 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