

Specification : Anti-diabetic Thai Medicinal Plant Recipe Extract/

สารสกัดตำรับยาสมุนไพรไทยสำหรับคนไข้เบาหวาน (Manose RM-0122)

(Application : An active ingredient in food supplements for diabetic patients/

สารสำคัญในผลิตภัณฑ์เสริมอาหารสำหรับคนไข้เบาหวาน)

1. Name of the raw material : Anti-diabetic Thai Medicinal Plant Recipe Extract
2. Active components : Phenolic compounds, flavonoids, glycosides, xanthenes, tannins, alkaloids and gallic acid⁽¹⁾
3. Common and scientific name/ Family of the plant : Ta-khian-nu (Bark) (*Anogeissus acuminata* (Roxb. ex DC.) Guill. & Perr. var. *lanceolata*)/ COMBRETACEAE and other Thai medicinal plants
4. Physical appearance : Dark brown solid with herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using gallic acid as a marker
7. Stability of active constituent : Gallic acid is stable at room temperature and light protection condition
8. Solubility : Soluble in water and ethanol
9. 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
10. Biological activities : Anti-diabetic activity⁽²⁾
11. Animal / human performance test : Anti-diabetic activity in animals⁽²⁾
 - The extract at the dose of 100 mg/kg body weight exhibited anti-diabetic activity in animals with the reduction of % fasting blood glucose (FBG) of 78.98 % at 4 hours (folds of insulin = 1.10).

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12. Safety : No skin irritation in human volunteers / LD₅₀ > 5 g/kg
BW in rats
13. Pharmaceutical, food : Anti-diabetic in food supplements
supplement or cosmetic
applications
14. Recommended : 0.1-1.0% w/w in food supplements
concentrations in the
product
15. Storage : Keep in tight and light protection container at room
temperature
16. Precautions : None
17. Cost per kg : Please request

References

1. Singh D, Baghel US, Gautam A, Baghel DS, Yadav D, Malik J, Yadav R. (2016) The genus of *Anogeissus*: A review on ethnopharmacology, phytochemistry and pharmacology. *Journal of Ethnopharmacology*. 194: 30-56.
2. Manose In-house Project “The Development of Extracts from Thai Medicinal Plant Recipes for Anti-diabetic”, **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2016.