

Specification : Sorghum extract / สารสกัดข้าวฟ่าง

(Manose RM-0029)

(Application : An active ingredient for Anti-wrinkle cosmetic products and

food supplement products for diabetic and dyslipidemia patients /

สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านริ้วรอย และเป็นผลิตภัณฑ์เสริมอาหาร

สำหรับผู้ป่วยเบาหวาน และผู้ป่วยไขมันในเลือดสูง)

1. Name of the raw material : Sorghum extract
2. Active components : Alkaloids, phenolic compounds and flavonoids⁽¹⁾
3. Common and scientific name/ Family of the plant : Sorghum (*Setaria italica* (L.) P.Beauv)/ GRAMINEAE
4. Physical appearance : Brown-yellowish with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using flavonoids as a marker
7. Solubility : Soluble in 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 : Anti-oxidant⁽¹⁾, blood glucose and serum lipid reduction⁽²⁾
10. Animal / human performance test : Blood glucose and serum lipid reduction in human volunteers⁽²⁾

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- 11. Safety : No skin irritation in human volunteers
 - 12. Pharmaceutical, food supplement or cosmetic applications : Anti-wrinkle cosmetic products and food supplement products for diabetic and dyslipidemia patients
 - 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

Reference

1. Suma PF, Urooj A. (2012) Antioxidant activity of extracts from foxtail millet (*Setaria italica*). **Journal of Food Science and Technology**. 49(4): 500-504

2. Sireesha Y, Kasetti RB, Nabi SA, Swapna S, Apparao C. (2011).

Antihyperglycemic and hypolipidemic activities of *Setaria italica* seeds in STZ diabetic rats. **Pathophysiology**. 18: 159-164