

Specification of Sorghum extract (Manose RM-029)

1. **Name of the raw material** : Sorghum extract
2. **Active components** : Alkaloids, phenolic compounds and flavonoids⁽¹⁾
3. **Scientific name of the plant / Family** : Sorghum (*Setaria italica* (L.) P.Beauv)/
GRAMINEAE
4. **Physical appearance of the raw material** : Brown-yellowish solid with specific odor
5. **pH of the raw material** : 5
6. **Standardization of the raw material** : HPLC fingerprint using flavonoids as a marker⁽¹⁾
7. **Solubility** : Soluble in water and ethanol
8. **Microbial contamination** : None
9. **Biological activities** : Anti-oxidant⁽¹⁾, blood glucose and serum lipid reduction⁽²⁾
10. **Safety** : No skin irritation in human volunteers
11. **Animal / human performance test** : Blood glucose and serum lipid reduction in human volunteers⁽²⁾
12. **Pharmaceutical, food supplement or cosmetic applications** : Anti-wrinkle cosmetic products and food supplement products for diabetics and dyslipidemia patients
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)** : None
16. **Cost per kg** : -

References

1. Suma PF, Urooj A. Antioxidant activity of extracts from foxtail millet (*Setaria italica*). Journal of Food Science and Technology 2012, 49(4): 500-504.
2. Sireesha Y, Kasetti RB, Nabi SA, Swapna S, Apparao C. Antihyperglycemic and hypolipidemic activities of *Setaria italica* seeds in STZ diabetic rats. Pathophysiology 2011, 18: 159-164.