

Specification of Soybean extract (Manose RM-030)

1. **Name of the raw material** : Soybean extract
2. **Active components** : Fatty acids, isoflavones, phytosterols and saponins⁽¹⁾
3. **Scientific name of the plant / Family** : Soybean (*Glycine max* (L.) Merr.)/
LEGUMINOSAE-PAPILIONOIDEAE
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 genistein as a marker⁽¹⁾
7. **Solubility** : Soluble in water and ethanol
8. **Microbial contamination** : None
9. **Biological activities** : Anti-oxidant⁽²⁾, anti-cancer⁽³⁾, blood glucose and serum lipid reduction⁽⁴⁾ and estrogenic effect
10. **Safety** : No skin irritation in human volunteers
11. **Animal / human performance test** : Anti-cancer⁽³⁾, blood glucose and serum lipid reduction⁽⁴⁾ in animals and female hormone replacement in human volunteers
12. **Pharmaceutical, food supplement or cosmetic applications** : Female hormone replacement food supplement products for menopause women, anti-cancer food supplement products, food supplement products for diabetic and dyslipidemia patient and hair growth promotion, anti-wrinkle and anti-aging cosmetic products
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. Kanchana P, Santha ML, Raja KD. A review on *Glycine max* (L.) Merr. (soybean). World Journal of Pharmacy and Pharmaceutical Sciences 2016, 5(1): 356-371.
2. Afaf A, Abdel-Had Y. Evaluation of the antioxidant activity and the acute oral toxicity of three plant extracts on albino mice. Middle East Journal of Applied Sciences 2014, 4(2): 207–16.
3. Barnes S, Grubbs C, Setchell S, Carlson J. Soybeans inhibit mammary tumors in models of breast cancer, in Pariza., 1990.
4. Jibu T, Subha Mary Varghese EJ. Antidiabetic and antihyperlipidemic activity of the extracts of the seeds of *Glycine max* (L) in streptozotocin induced diabetic mice. Drug Invention Today, 2012.