
Specification : Soybean Extract / สารสกัดถั่วเหลือง
(Manose RM-0030)

(Application : An active ingredient for food supplements for menopausal women (hormone replacement), anti-cancer, anti-diabetic and anti-dyslipidemia / hair growth promotion, anti-wrinkle and anti-aging cosmetics / สารสำคัญในผลิตภัณฑ์เสริมอาหารทดแทนฮอร์โมนเพศหญิง สำหรับสตรีวัยทอง ต้านมะเร็ง เบาหวาน ไขมันในเลือดสูงและผลิตภัณฑ์เครื่องสำอาง ช่วยให้ผมงอก ต้านริ้วรอยและชะลอวัย)

1. Name of the raw material : Soybean extract
2. Active components : Fatty acids, isoflavones, phytosterols and saponins⁽¹⁾
3. Common and scientific name/
Family of the plant : Soybean (*Glycine max* (L.) Merr.)/ LEGUMINOSAE-PAPILIONOIDEAE
4. Physical appearance : Yellowish-brown with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using genistein⁽²⁾ and linoleic acid as a marker. It contains 0.28% w/w of linoleic acid
7. Solubility : Soluble in ethanol

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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-oxidantive⁽²⁾, anti-cancer⁽³⁾, blood glucose and serum lipid reduction⁽⁴⁾ and estrogenic activities⁽⁵⁾
 10. Animal / human performance test : Anti-cancer⁽³⁾, blood glucose and serum lipid reduction in animals⁽⁴⁾ and female hormone replacement in human volunteers⁽⁶⁾
 11. Safety : No skin irritation in human volunteers
 12. Pharmaceutical, food supplement or cosmetic applications : Food supplement products for menopausal women, anti-cancer, diabetic and dyslipidemia and hair growth promotion, anti-wrinkle and anti-aging 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

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4. Jibu T, Subha Mary Varghese EJ. (2012) Antidiabetic and antihyperlipidemic activity of the extracts of the seeds of *Glycine max* (L) in streptozotocin induced diabetic mice. **Drug Invention Today.**
5. Morgan HE, Dillaway D, Edwards TM. (2014) Estrogenicity of Soybeans (*Glycine max*) varies by plant organ and developmental Stage. **Endocrine Disruptors.** 2(1) : e28490
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