

Specification : False Daisy Extract / สารสกัดกะเม็ง
(Manose RM-0012)

(Application : An active ingredient for hair blackening and
hair growth promotion cosmetics / สารสำคัญในผลิตภัณฑ์เครื่องสำอาง
ย้อมสีผมให้ดำและกระตุ้นการงอกของเส้นผม)

1. Name of the raw material : False Daisy Extract / 1 % False Daisy Extract in propylene glycol
2. Active components : Coumestans, alkaloids, flavonoids and glycosides⁽¹⁾
3. Common and scientific name / Family of the plant : False Daisy (*Eclipta prostrata* (L.) L.)/ COMPOSITAE
4. Physical appearance : Solid : dark brownish solid with light herbal odor /
Liquid : dark green with light herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using wedelolactone as a marker⁽²⁾
7. Solubility : Soluble in water and 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 (DPPH)⁽³⁾, hair blackening⁽⁴⁾,
hair growth promotion⁽⁵⁾
and anti-cancer⁽²⁾
10. Animal / human performance test : Hair blackening in human volunteers⁽⁴⁾
and hair growth promotion in animals⁽⁵⁾
11. Safety : No skin irritation in human volunteers

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| 12. Pharmaceutical, food supplement or cosmetic applications | : | Hair coloring and hair growth promotion cosmetic products |
| 13. Recommended concentrations in the product | : | 0.1-5 % w/w (for solid extract) and 5-10 % w/w (for solid extract in propylene glycol) |
| 14. Storage | : | Keep in tight and light protection container at room temperature |
| 15. Precautions | : | None |
| 16. Cost per kg | : | Please request |

References

1. Chokotia LS, Vashistha P, Sironiya R, Matoli H. (2013) Pharmacological activities of *Eclipta alba* (L.). **International Journal of Research and Development in Pharmacy and Life Sciences**. 2(4): 499-502
2. Liu QM, Zhao HY, Zhong XK, Jiang JG. (2012) *Eclipta prostrata* L. : phytochemicals, isolation, structure elucidation and their antitumor activity. **Food and Chemical Toxicology**. 50: 4016-4022
3. Cherdtrakulkiat R, Boonpangrak S, Pingeaw R, Prachayasittikul S, Ruchirawat S, Prachayasittikul V. (2015) Bioactive triterpenoids, anti-microbial, anti-oxidant and cytotoxic activities of *Eclipta prostrata* Linn. **Journal of Applied Pharmaceutical Science**. 5(3): 46-50
4. Tripathi S, Mondal AK. (2015) *Eclipta prostrata* (L.) L. (Asteraceae)-an eco-an friendly natural hair dye. **Current Science**. 109(6): 1011-1012
5. Roy RK, Mayank Thakur, Dixit VK. (2008) Hair growth promoting activity of *Eclipta alba* in male albino rats. **Archives of Dermatological Research**. 300: 357-64