Formulation of skin care lotion from *Garcinia cowa* leaf extract

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**Abstract:** Leaves of *Garcinia cowa* Roxb. were collected from Roi-Et province, Thailand. This research was to compare antioxidant activities between water and ethanol extracts from *G. cowa* leaves and to formulate skin lotion from *G. cowa* extract. First, *G. cowa* leaves were extracted successively with distilled water and 95% ethanol. The yields of the water and ethanol extracts were 8.39% and 11.71%, respectively. Using Folin Ciocalteu method, the total phenolic contents of the water and ethanol extracts were 28.23 µg/mL GAE and 57.41 µg/mL GAE, respectively. The antioxidant activities, obtained by DPPH scavenging method, were 57.41% and 86.94% for the water and ethanol extracts, respectively. Secondary, skin lotion was formulated from *G. cowa* ethanol extract. The results indicated that skin lotion with 1% of *G. cowa* ethanol extract found to be more stable, good spread ability, homogeneity, constant pH and no evidence of phase separation. In conclusion, the *G. cowa* leaf extract could be an active ingredient for promising natural skin care cosmetics.

**Keywords:** *Garcinia cowa*; Skin care lotion; Antioxidant activity; Total phenolic content