

XANTHONES FROM FRUIT HULLS OF *GARCINIA MANGOSTANA*

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ABSTRACT

XANTHONE FROM FRUIT HULLS OF GARCINIA MANGOSTANA

Mangosteen fruit was known and widely used as medical purpose such as medicine to treat abdominal pain, diarrhea and infected wound. This was due to the presences of active compounds such as xanthenes which provide remarkable and diverse pharmacological effects such as anticancer, antioxidant, anti-inflammatory and antimicrobial activities. Thus, the fruit hulls of *Garcinia mangostana* was chosen for further analysis in this project. Specific study on the extraction of ethyl acetate extract from fruit hulls of *G. mangostana* have successful resulted on the isolation of three phenolic compound, α -mangostin (**43**), β -mangostin (**44**) and garcinone D (**35**) in the column chromatography. The structure of these compounds were identified and elucidated by using spectroscopy methods such as ¹H NMR, ¹³C NMR, infrared (IR) and EIMS.