

**CHEMICAL COMPONENTS FROM BARK OF  
*GARCINIA MANGOSTANA L.***

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## ABSTRACT

### CHEMICAL COMPONENTS FROM BARK OF *GARCINIA MANGOSTANA L.*

Experiment was conducted on bark of *Garcinia mangostana* which belong to the family Clusiaceae found throughout in the tropical region of the entire world. This genus of species contain varies of medicinal benefit such as anti-cancer, antimicrobial and anti-inflammatory. Several objectives have been set up for this experiment which is first to extract and isolate the chemical constituents from bark of *Garcinia mangostana L.*, meanwhile for the second one is to identify and elucidate the structure of the compounds by using spectroscopic methods. Experiment on the isolation from bark of *Garcinia mangostana* through a series of column chromatography have resulted on the isolation of three prenylated xanthenes,  $\alpha$ -mangostin,  $\beta$ -mangostin and 9-hydroxycalabaxanthone. All of these structures were established by spectroscopic analysis which included 1D NMR, MS techniques and comparing with previous data.

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