

Jurnal Ilmiah
FARMASI

(Scientific Journal of Pharmacy)



JURNAL ILMIAH FARMASI
(SCIENTIFIC JOURNAL OF PHARMACY)

PIMPINAN UMUM/ PENANGGUNG JAWAB
Dekan Fakultas Matematika dan Ilmu Pengetahuan Alam
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ISOLASI DAN IDENTIFIKASI SENYAWA GOLONGAN XANTON DARI KULIT BUAH MANGGIS (*Garcinia mangostana* L.)

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ABSTRACT

A research on the isolation and identification of xanthone from the fruit rind of mangosteen (*Garcinia mangostana* L.) was carried out. Extraction was done using maceration with methanol – water solvent and fractionation with n-hexane and ethyl acetate solvent. Column chromatography with silica gel as the stationary phase and n-hexane – ethyl acetate (7 : 3) as the mobile phase was used for the isolation. From the ethyl acetate fraction was obtained GM II-1 isolate (R_f 0,61 ; n-hexane – ethyl acetate 7 : 3 as mobile phase) which showed a colour change from reddish brown to yellow under UV light 366 nm after spraying with $AlCl_3$. Identification of the isolate with UV spectrophotometry gave maximum absorptions at wavelengths 241,5, 257,5, 317, 364,5 nm. GC - MS indicated that GM II-1 isolate had a molecular weight of 259, the isolate was presumed to be a xanthone.

Keywords: xanthone, *Garcinia mangostana* L., mangosteen, isolation, identification