



TRITERPENOID FROM FRUIT HULLS OF KECAPI (*SANDORICUM KOETJAPE MERR*)

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ABSTRACT

Kecapi (*Sandoricum koetjape* Merr) is an edible fruit and can be made as an excellent jam, sweets and syrup. Two compound have successfully isolated and characterized from fruit hulls of kecapi (*S. koetjape* Merr) which come from Serang distric West Java Indonesia. They are an triterpenoid acid type as bryononic acid and bryonolic acids.

Key Word: *S. Koetjape* Merr, Triterpenoid

INTRODUCTION

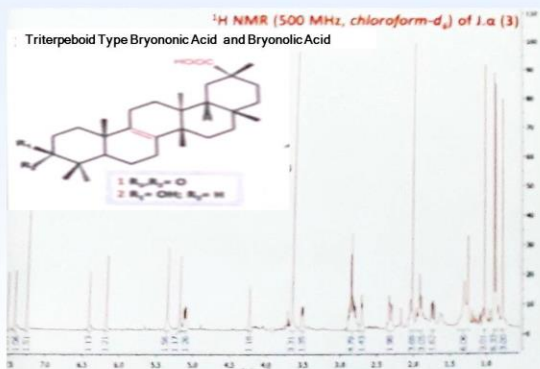
The meliaceae family are well known as producer of Triterpenoids.

The researches interest on Meliacin is not only in structural diversity, but also broad range of bioactivity, such as as antifeedant, growth-regulating activities, insecticide, antimicrobial (antibacterial and antifungi), antimalarial, antiviral, and cytotoxic. One of Meliaceae family in Indonesia is "kecapi" or "sentul" (*Sandoricum koetjape* Merr. Syn. *S. indicum* Cac, *S. Nervosum* Blume. or *Melia koetjape* Burn) and the fruit of the species is edible and can be made as an excellent jam, sweets and syrup. This plant are distributed in tropical and subtropical region throughout the world, which centered around South-East Asia. Beside its fruit, the whole plant have been used as traditional medicines as tonic after childbirth and for the treatment of colic and leucorrhoea by local people.

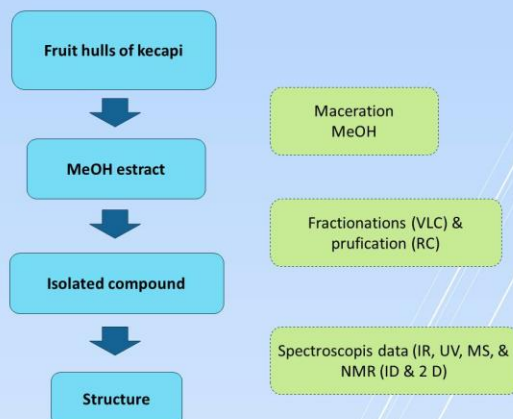
RESULTS



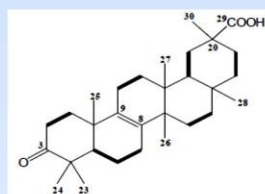
Fruit and fruit hulls of Kecapi (*S. Koetjape*Merr)



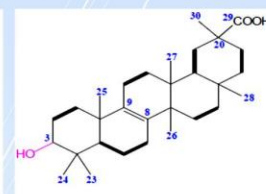
METHODOLOGY



Isolated Compounds From Fruit Hulls of Kecapi (*S. koetjape* Merr)



Bryononic Acid (1)



Bryononic Acid (2)

CONCLUSIONS

Two compounds of triterpenoid acid type have been successfully isolated and characterized as bryononic acid (1) and bryononic acid (2). Their chemical structure had been established based on spectroscopic data including IR, UV, MS, polarimeter and NMR (1D-NMR) (¹HNMR and ¹³C-NMR) and 2D-NMR (HSQC, HMBC, COSY AND NOESY).

ACKNOWLEDGMENT

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