

## BUKTI PEMAKALAH SEMINAR INTERNASIONAL PUSAT STUDI BIOFARMAKA TROPIKA LPPM-IPB

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### ANTIDIABETIC ACTIVITY OF MANONJAYA SNAKEFRUIT PEEL EXTRACT USING ZEBRA FISH (*Danio rerio*) AS ANIMAL MODEL

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**Abstract**

research aimed to determine the active fraction and profile of active compounds in manonjaya snakefruit skin extract that can be used as anti the antidiabetic activity using zebra fish. Manonjaya snakefruit skin was extracted by maceration using 70% ethanol and then fractionated using n-hexane, ethyl acetate and methanol. Phenolic levels, total flavonoid and  $\alpha$ -glucosidase inhibition were determined used a microplate reader. Fraction t which is the active fraction is the ethyl acetate fraction with the highest yield fractionation value is 0.94%, the highest total phenolic is 1086.7 AE/g extract, the highest total flavonoid is 149.59 mg QE/g extract, the strongest  $\alpha$ -glucosidase inhibition based on the inhibition percentage is 3% and which provided the most active spot as an  $\alpha$ -glucosidase inhibitor. The profile of active compounds that act as antidiabetic compound is noid from glycosylflavone and flavone groups. Antidiabetic activity using zebra fish was indicates that manonjaya snakefruit skin extract from ed act and ethyl acetate fraction can decrease blood sugar level of zebra fish after induced with alloxan.

**FOUND**

The increasing the number of diabetics patient

Snakefruit: Traditionally used by Sundanese People (West Java, Indonesia) to treat diabetic (the peel part)

Manonjaya snakefruits peel e: the most active among peel and flesh part

**METHOD**

Dried Manonjaya Snake fruits Peels

+ ethanol 70% ↓

Crude Extract

fractionation

- n-hexane → n-hex Fr
- EtOAc → EtOAc Fr
- methanol → MeOH Fr

Flavonoid & phenolic content

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