

Antidiabetic Activity of ARA (*FicusRacemosa*) from ACEH

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Abstract: Isolation of chemical compounds from hexane extract of the stem bark of *Ficusracemosa* (fig), starting by maceration of 3 kg of bark *F.racemosa*, and obtained 68 g of extract concentrated, then separated by gravity column to obtained 4 groups of fraction (A, B, C, and D). Separation of the group fraction A was obtained isolates A4, allegedly α -Amyrindodecanoic, which is based on spectroscopy by, FTIR, ¹H-NMR, and ¹³C-NMR, and also, mass-spectrometry. Antidiabetic activity by glucose tolerance in mice. Activity lowers blood sugar in mice at 30th minutes, sorted greatest to the smallest is fraction group D (200.67 mg/dL), the crude extract (99.00 mg/dL), fraction group of B (77.67 mg/dL), fraction group C (71.33 mg/dL), fraction group A (28.67 mg/dL) and isolates A4 (4.67 mg/dL). Activity lowers blood sugar in mice at 60th minutes, sorted greatest to the smallest is fraction group D (136.33 mg/dL), the crude extract (51.33 mg/dL), fraction group of B (12.00 mg/dL), while isolates A4 to raise blood glucose levels of 8.67 mg/dL, as well as fraction group of B and group fraction C, to raise the blood glucose respectively 39.00 mg/dL and 17.67 mg/dL. Activity lowers blood sugar in mice at 90th minutes, sorted greatest to the smallest, is the fraction group of D (46.33 mg/dL), isolates A4 (43.00 mg/dL), the group of fraction A (19.67 mg/dL), the fraction C group (6.67 mg/dL) and crude extract (4.33 mg/dL). Group fraction B, at the 90th minute, to raise the blood glucose levels of mice of 36.33 mg/dL. Activity lowers blood sugar in mice at 120th minutes, sorted greatest to the smallest, respectively from fraction group of the D (44.33 mg / dL), group C fraction (29.33 mg/dL), group A fraction (25. 67 mg/dL), fraction group B (12.67 mg/dL) and crude extract (3.00 mg/dL). Group D bark fraction *F.racemosa* more active than others at 30 minutes of treatment, the level of 95%, (p <0.05).

Keywords: *Ficusracemosa*, Antidiabetic, α -Amyrindodecanoic, glucose tolerance.