



Antidiabetic Effect of Standardized Extract of Indonesian Kanunang Leaves (*Cordia myxa* L.)

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Abstract : Diabetes mellitus (DM) is a metabolic disease that is affected by high blood sugar (glucose). This is occurred because of either insulin secretion or insulin resistance. Prevalence of DM in Indonesia is very high case, and it is predicted about 21.3 millions people in 2030 will be suffer from its disease. DM can be treated by modern drugs and herbal medicine. One of several plants to treat of DM is Kanunang (*Cordia myxa* L. Boraginaceae Family). The extract of Kanunang was standardised by Pharmacognostic methods to determine of water, total ash, and acid-insoluble ash contents that are 9.04; 19.53; and 0.843 respectively. Microbiological assay is showed that Kanunang extract is relatifely safe from pathogen microorganism. In vitro study have been done with inhibiting of α -glucosidase enzyme. This research was conducted that *C. myxa* leaves extract could be inhibiting activity of α -glucosidase enzyme with IC₅₀ value is 35.89 μ g/mL (compared with positive standard is 117.20 μ g/mL). The conclusion of this research that the *C. myxa* extract is potent to develop as an antidiabetic medicine.

Keywords: Diabetes mellitus, α -glucosidase, Kanunang, *Cordia myxa* L.

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