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## Inhobitory Potential of Poligala paniculata L. Against α-glucosidase

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**Abstract**: There are many Indonesian plants used as herbal medicine. For example, herbal medicine to treat the diabetes mellitus, such as *Poligala paniculata* L. In this point, we tested the ethanolic extracts of *Poligala paniculata* L. with respect to a glucosidase inhibition activity. *Polygala paniculata* L.used for herbal medicine as antihypertension and anticholesterol, and potential for hyperglycemia. The sample has extracted with maseration method using ethanol solvent. Antidiabetic assay with inhibitory of enzyme  $\alpha$ -glucosidase. Our results show the extract of *P. paniculata* as a potential as antidiabetic with IC<sub>50</sub>0.518 µg/mL. It is higher than the glucobay 0,017 µg/mL. These results demonstrate the ability of *P. paniculata* extract is still lower than the positive control, but this results contribute to understand and the mechanism of action of these plants on glucose metabolism.

**Key word :** Antidiabetic, enzyme α-glucosidase, *Poligala paniculata* L.

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