Effect of *Lawsonia inermis* Linnaeus leaf extracts on blood glucose level in normal and streptozotocin-induced diabetic rats

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*Lawsonia inermis* Linnaeus is one of the plants commonly used in Indonesian community for the treatment of different diseases. The anti-diabetic activity was evaluated by determining whether the extracts lowered the blood glucose level BGL0 of normal rats (hypoglycemic test) or lowered BGL of streptozotocin-induced diabetic rats (SDR). Dried powdered *L. inermis* leaves were extracted serially with n-hexane (HE), ethylacetate (EAE), ethanol (EE), water1 (WE1) and water2 (WE2). Hypoglycemic in normal rats showed only HE significantly reduce fasting BGL at 3 h observation. However, in antihyperglycemic test in SDR, single-dose administration of the extracts showed that only EAE reduced BGL significantly at 3 h observation. The present work conclude that EAE is the most active extract as antihyperglycemic.

Biography

Widyawati T is a Lecturer at Medical Faculty, University of Sumatera Utara since 2003. Currently, she is pursuing her PhD at Pharmaceutical Sciences University Sains Malaysia and has submitted her final thesis.

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