

Blood Glucose Level, Langerhans Pancreas and Lipid Profile of Diabetic Rats After Administration of Red Betel, Ginger and Cinnamon Combination Extract

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## Highlights:

- Red betel combination extract is composed of red betel extract that was combined with ginger and cinnamon extracts.
- The administration of red betel combination extract for 14 days (9 mL/kg BW dosage) decreased the rat's blood glucose level up to 55.42% and also increased the number of rat Langerhans islets.
- The level of rat's blood HDL and triglyceride levels in the diabetic control group were significantly different (p < 0.05) compared to that of the diabetic with red betel combination extract and normal groups.