

Inhibitory Effect of Hydroalcoholic Extract of *Cestrum Nocturnum* on α -Amylase Activity

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Abstract : Inhibition of α - amylase play a vital role in the clinical management of postprandial hyperglycemia. Although, powerful synthetic inhibitors are available, natural inhibitors are potentially safer. The present study was carried out to evaluate α - amylase inhibition activity from hydroalcoholic extracts from aerial parts of *Cestrum nocturnum*. Hydroalcoholic extract was prepared by Soxhletation Method. The extract showed strong inhibition towards α - amylase activity and IC50 value were 45.9 μ g. This In vitro studies indicate the potential of *C. nocturnum* in the development of effective anti-diabetic agents.

Keywords : α - amylase, *cestrum nocturnum*, hyperglycemia, hydroalcoholic extracts, diabetes

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