

ASSESSMENT OF *IN-VITRO* PANCREATIC LIPASE INHIBITORY ACTIVITY OF METHANOLIC EXTRACTS OF *PLEUROTUS ERYNGII*

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ABSTRACT

Current research investigation was conducted with the main purpose to evaluate for the in-vitro pancreatic lipase inhibitory activity of methanolic extract of Pleurotus eryngii. In-vitro pancreatic lipase inhibitory assay was carried out to determine IC₅₀ values of methanolic extracts of Pleurotus eryngii. The results revealed that the methanol extract of Pleurotus eryngii possess in-vitro pancreatic lipase inhibitory activities at the concentration of 1-50 µg/ml. In conclusion, methanolic extract of Pleurotus eryngii has been reported to possess the in-vitro pancreatic lipase inhibitory activities. Hence, further in-vivo studies could be recommended to access the safety and efficacy of methanolic extract of Pleurotus eryngii to exploit it for biopharmaceutical and therapeutic purposes.

KEYWORDS: *Pancreatic Lipase, Pleurotus Eryngii, Methanol Extract, Antiobesity*