## Group 8: Some chemical and therapeutic characters of S. multicaulis Vahl

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## Abstract

Background: Herbal products are diverse and promising materials of natural medications. Therefore, recently, a huge number of plants species have been investigated for their therapeutic potentials. The current investigation aimed to estimate the ingredients and to evaluate the antioxidant, antilipase,  $\alpha$ -amylase, and  $\alpha$ -glycosidase enzymes inhibitory activities of Salvia multicaulis Vahl hexane, acetone, methanol and aqueous fractions.

Methods: Quantitative and qualitative phytoconstituents screenings were conducted using standard pharmacopoeian methods. While, the lipase, α-amylase, and α-glycosidase enzymes inhibitory activities were the determined according to the standard reference methods. Moreover, the antioxidant activity was conducted utilizing 2,2-diphenyl-1-picrylhydrazyl (DPPH) assay.

Results: The pharm acopoeian methods screenings revealed the S. multicaulis contains wide range of secondary metabolites especially tannins. However, the most potent antioxidant, antilipase,  $\alpha$ -glucosidase and  $\alpha$ -amylase inhibitory activities was acetone fraction, hex ane, methanol and aqueous S. multicaulis fractions, respectively.