INHIBITION OF ACETYLCHOLINESTERASE ACTIVITY BY HIDROALCOHOLIC EXTRACT AND THEIR FRACTIONS OF *BOUVARDIA TERNIFOLIA* (CAV.) SHCLTDL (RUBIACEAE).

ABSTRACT

The Hydroalcoholic extract (BtHA) and its fractions of *Bouvardia ternifolia* were evaluated as inhibitor of the activity of the acetylcholinesterase enzyme utilizing the *in vitro* method (Ellman) BtHA inhibited the acetylcholinesterase enzyme competitively (IC50 = 0.6 g/ml); the ethyl acetate Fraction (BtF-AcOEt) caused mixed.type inhibition (IC50 = 0.96 g/ml). A fraction insoluble on methanol (Bt-Faq-1) showed a mixed-type inhibition (IC50 = 0.96 g/ml). Finally, the metanol-soluble fraction (Bt-Faq-2), presented complex, mixed-type inhibition that corresponds to the C5 system (= 0.7 and =0.842). Rutin, quercetin, kaempferol and ursolic acid were detected by HPLC and the concetration of these compounds was different in each fraction.

http://www.blacpma.usach.cl/images/docs/011-006/006_articulo_4.pdf

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Revista: Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromáticas. Volume: 11, Issue 6, pages 526-541.