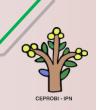


Centro de Desarrollo de Productos Bióticos



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



Autores: Maribel Herrera Ruiz, Giovanni García Morales, Alejandro Zamilpa, Manasés González Cortazar, Jaime Tortoriello, Elsa Ventura Zapata, Enrique Jiménez Ferrer.

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