ABSTRACT

Flavonoids and other constituents from *Lippia micromera*

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This thesis describes the isolation of flavonoids and other constituents from *Lippia micromera*. The compounds isolated were identified using modern spectroscopic techniques.

Investigation of *Lippia micromera* stems and leaves yielded 8 flavonoid compounds as discussed in chapter 3. The aglycones isolated for the first time from plants of this genus were acacetin and eriodictyol. Quercetin, hispidulin and jaceosidin were also isolated. Three acacetin glycosides were isolated for the first time from this genus namely, acacetin 7-0-β-glucoside, acacetin 7-0-β-neohesperidoside and acacetin 7-0-rutinoside. Curvaceol was isolated as well as the extremely potent antioxidant compound 3,3',4,4'-tetrahydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl

Keywords: Moore Michelle, Flavonoids, *Lippia micromera*.