



Comparative Study and Anticholinesterasic Evaluation of Essential Oils from Leaves, Stems and Flowers of *Myrciaria floribunda* (H.West ex Willd.) O. Berg

Luis A.C. TIETBOHL¹, Barbara G. LIMA¹, Caio P. FERNANDES¹, Marcelo G. SANTOS³,
Fabiana E.B. SILVA⁴, Elton L.G. DENARDIN⁴, Róber BACHINSKI⁵,
Gutemberg G. ALVES⁵, Moacélio V. SILVA-FILHO² & Leandro ROCHA^{1*}

¹ Laboratório de Tecnologia de Produtos Naturais &

² Departamento de Farmácia e Administração Farmacêutica, Faculdade de Farmácia,
Universidade Federal Fluminense, Rua Doutor Mário Viana 523, CEP 24241-000, Niterói, RJ, Brazil.

³ Departamento de Ciências, Faculdade de Formação de Professores, Universidade do Estado do Rio de
Janeiro, Dr. Francisco Portela 1470, CEP 24435-000, São Gonçalo, RJ, Brazil.

⁴ Laboratório de Estudos Físico-Químicos e Produtos Naturais, Universidade Federal do Pampa,
Campus Uruguaiana, Br 472 - Km 07, CEP 97500-970, Uruguaiana, RS, Brazil.

⁵ Unidade de Pesquisa Clínica, Hospital Universitário Antônio Pedro, Universidade Federal Fluminense,
Rua Marques de Paraná, 303/emergência - 4º andar, Centro, CEP: 24033-900, Niterói, RJ, Brazil

SUMMARY. *Myrciaria floribunda* (H.West ex Willd.) O.Berg, Myrtaceae, popularly known as “camboim amarelo”, was collected in Restinga de Jurubatiba (RJ, Brazil). Leaves, stems and flowers were individually submitted to hydrodistillation, affording the respective essential oils. Monoterpenes were the main group of essential oils from leaves (53.9 %) and flowers (55.4 %). Sesquiterpenes were more representative in stems (72.2 %). 1,8-cineole was the major constituent in the essential oil from leaves (38.4 %) and flowers (22.8 %). The major constituent from stems was (2E,6E)-farnesyl acetate (19.9 %). To our knowledge, these are the first contributions for essential oils from stems and flowers of *M. floribunda*. It was also performed the acetylcholinesterase inhibitory bioassay of the essential oil from stems, flowers and leaves of *M. floribunda*. Flowers and leaves oils had an IC₅₀ of 1583 and 681 µg/mL, respectively, being both low to mild values.

KEY WORDS: Essential oil, *Myrciaria floribunda*, Myrtaceae.

* Author to whom correspondence should be addressed. E-mail: lean@vm.uff.br