

Identification of Nematicidal Fatty Acids and Triglycerides from Seeds of *Jubaea chilensis* by GC-EI-MS and Chemical Transformation Methods

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Nematicidal bioassay-guided fractionation of the *n*-hexane extract of the seeds of *Jubaea chilensis* led to the identification of eight known fatty acids and a mixture of triglycerides, reported for the first time for this species. In addition, their corresponding methyl esters were identified to be artifacts generated during the extraction and isolation procedures by using GC-EI-MS and chemical transformation methods. The fatty acid composition of the triglycerides was analyzed by GC-EI-MS and chemical transformation techniques. Among the 17 compounds, only lauric acid and myristic acid exhibited significant inhibitory effects on the movement of *Caenorhabditis elegans* with minimum inhibitory concentrations (MIC) of 75 µg/ml.

Key words: *Jubaea chilensis*, *Caenorhabditis elegans*, Fatty Acids GC-EI-MS