Pharmaceutical Topical Gel: Development and Validation of a UV Spectrophotometric Method for Determination of Polyphenols

Patrícia E.R. SILVA-CORAZZA 1, Gisely C. LOPES 1, Maria C. DICIAULA 2, Marli M.S. LIMA 1 & João C. PALAZZO de MELLO 1*

1 Programa de Pós-graduação em Ciências Farmacêuticas, Universidade Estadual de Maringá, Av. Colombo, 5790, 87020-900, Maringá, PR, Brazil.
2 Acadêmico de Farmácia, Universidade Estadual de Maringá, Av. Colombo, 5790, 87020-900, Maringá, PR, Brazil.

SUMMARY. The objective was to develop and validate a method for the determination of total polyphenols in a vaginal gel containing a dried extract of Aroeira (Schinus terebinthifolius Raddi). The method was developed by UV spectrophotometry, and proved to be precise, accurate, reproducible, and easy to perform.

KEY WORDS: Polyphenols, Schinus terebinthifolius, Spectrophotometric method, Topical pharmaceutical, Vaginal gel, Validation method.

* Author to whom correspondence should be addressed: E-mail: mello@uem.br