



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

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

<sup>1</sup> Programa de Pós-graduação em Ciências Farmacêuticas, Universidade Estadual de Maringá,  
Av. Colombo, 5790, 87020-900, Maringá, PR, Brazil.

<sup>2</sup> 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