



## Toxicological and Pharmacological Studies of *Picrasma crenata* (Vell.) Engler (Simaroubaceae) in Mice and Rats

Cláudio R. NOVELLO, Roberto BARBOSA BAZOTTE, Ciomar A. BERSANI-AMADO,  
Luis C. MARQUES & Diógenes A.G. CORTEZ \*

*Department of Pharmacy and Pharmacology, State University of Maringá,  
Avenida Colombo, 5790, 87020-900, Maringá, PR, Brazil*

**SUMMARY.** The toxicity and the anti-inflammatory, anti-ulcer, anti-hyperglycemic, hypoglycemic and anti-hyperlipidemic effect of the hydroalcoholic extract from woods (without bark) of *Picrasma crenata* (Vell.) Engler (Simaroubaceae) were investigated. The extract showed low toxicity in mice. Additionally, in agreement with the popular use to treat gastric ulcer and diabetes, anti-ulcer and blood glucose lowering effect were detected in rats. However, anti-inflammatory, anti-hyperglycemic and anti-hyperlipidemic effects were not observed in these animals.

**RESUMEN.** “Estudios Toxicológicos y Farmacológicos de *Picrasma crenata* (Vell.) Engler (Simaroubaceae) en ratones y ratas”. Se investigó la toxicidad, actividad anti-inflamatória, anti-úlceras, anti-hiperglucemiantes, hipoglucemiantes y anti-hiperlipidémica del extracto hidroalcohólico de tallo (sin corteza) de *Picrasma crenata* (Vell.) Engler (Simaroubaceae). El extracto presentó baja toxicidad en ratones. Además, de acuerdo al uso popular de esta especie en el tratamiento de la gastritis y de la diabetes mellitus, se observó un efecto anti-úlceras e hipoglucemiantes en ratas. Sin embargo, no fue observado ningún efecto anti-inflamatório, anti-hiperglucémico ni anti-hiperlipidámico en estos animales.

**KEY WORDS:** Anti-ulcer activity, Antidiabetic activity, *Picrasma crenata*, Simaroubaceae, Toxicity.

**PALABRAS CLAVE:** Actividad anti-úlceras, Actividad antidiabética, *Picrasma crenata*, Simaroubaceae, Toxicidad.

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