



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-hiperglucemiante, hipoglucemiante 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 espécie en el tratamiento de la gastritis y de la diabetes mellitus, se observó um efecto anti-úlceras e hipoglucemiante 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