



## Additional Evidence for the Anti-inflammatory Properties of the Essential Oil of *Protium heptaphyllum* Resin in Mice and Rats.

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**SUMMARY.** The objective of this study was to analyze the chemical composition and evaluates further the anti-inflammatory properties of essential oil of *Protium heptaphyllum* resin (EOP). The essential oil was analyzed by GC/MS. Fourteen constituents, accounting for 100% of the total oil, were identified. The main constituents of essential oil were limonene (49.96%), *trans*- $\beta$ -ocimene (11.81%), eucalyptol (10.92%) and *p*-cymene (10.78%). EOP administered orally (100 and 200 mg/kg b.w.) significantly suppressed the development of carrageenan and egg albumin-paw edema and produced a significant inhibition of peritoneal vascular permeability induced by acetic acid. OEP also reduced peritoneal leukocytes migration, granuloma tissue formation and mast cell degranulation induced by compound 48/80 (*ex-vivo*). These results appear to support the potential medicine use of EOP against inflammatory conditions.

**KEY WORDS:** Anti-inflammatory activity, Essential oil, Limonene, Mast cells, *Protium heptaphyllum*.

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