

**Title** Araçá (*Psidium cattleianum* Sabine) fruit extracts with antioxidant and antimicrobial activities and antiproliferative effect on human cancer cells

**Author** Aline Lisboa Medina, Lírio Inácio Reckziegel Haas, Fábio Clasen Chaves, Miriam Salvador, Rui Carlos Zambiasi, Wladimir Padilha da Silva, Leonardo Nora and Cesar Valmor Rombaldi

**Citation** Food Chemistry, Volume 128, Issue 4, 15 October 2011, Pages 916-922

**Keywords** Strawberry guava; Phenolic compounds; (–)-epicatechin; Salmonella enteritidis; MCF-7; Caco-2

### Abstract

Araçá or strawberry guava (*Psidium cattleianum* Sabine) is an attractive tasty small fruit native to temperate zones of Brazil. In this study, functional chemical constituents and the nutraceutical and therapeutic potential of aqueous and acetone extracts of red and yellow accessions of araçá were characterised. While carotenes, ascorbic acid, and anthocyanins were present as minor constituents, araçá fruit presented high levels of phenolic compounds (up to 768 mg 100 g<sup>-1</sup> fresh fruit pulp, ffp), particularly (–)-epicatechin (up to 2.7 mg g<sup>-1</sup> ffp), which were in general more efficiently extracted with acetone. Abundance of phenolic compounds was positively correlated with antioxidant activity, antimicrobial and antiproliferative effects.