

Cytotoxic and antioxidant properties of Borneo *Garcinia* species (Clusiaceae)

ABSTRACT

There are several local Malaysian *Garcinia* species which have ethnobotanical uses but so far very few studies have been carried out to link these folkloric uses with the phytochemistry of these plant species. It would be interesting therefore, to develop phytochemical data of two such Sarawakian species which are *Garcinia eugenifolia* and *Garcinia nitida* which have not been reported before. The methanol extract from the *G. eugenifolia* leaves exhibited moderate antioxidant activity with EC₅₀ values of 66 and 51 respectively, when compared to ascorbic acid with EC₅₀ values of 15.32 g/mL. This crude also showed weak cytotoxic activity to HeLa with IC₅₀ values of 71 and 40 g/mL respectively. However, the leaves extracts of *G. nitida* showed good cytotoxic activity with IC₅₀ values of 4 and 7 g/mL respectively towards both cell lines.

Keyword: *Garcinia eugenifolia*; *Garcinia nitida*; Cytotoxic; Antioxidant