

OR-39**Antioxidant Activity of Sala (*Cynometra ramiflora* Linn) Plant Extract**

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To investigate the antioxidant activity of Sala (*Cynometra ramiflora* Linn) medicinal plant extract were successively extracted with methanol and fractionation with the chromatography method to get nonpolar, semipolar and polar fraction. The leaves, fruits and stem barks of Sala had been extracted with methanol and screened for antioxidant activity using DPPH assay. The fruit extract and polar fraction of Sala leaves extracts showed low antioxidant activity, with the IC₅₀ values respectively, 425.10 ppm and 183.57 ppm. The methanolic extract, semipolar fraction of leaves extracts, nonpolar and semipolar fraction of stem bark extract showed a potential antioxidant activity, in that order 54.44, 91.20, 79.64 and 79.59 ppm. The stem bark methanol extract of *Cynometra ramiflora* Linn showed the highest activity (IC₅₀ 41.90 ppm). The result showed that prospective antioxidant of leaves and stem bark extract was higher than the fractions. Based on the IC₅₀ values the extract, semipolar and nonpolar fraction of stem bark can be developed as antioxidant agent.

Keywords: Antioxidant, *Cynometra ramifolia* Linn, and DPPH assay.
