

Antioxidant and anticancer activity of dietary fiber from *Cladosiphon novae-caledoniae kylin*
(Mozuku)

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Cladosiphon novae-caledoniae kylin(Mozuku) is edible brown algae cultured commercially and massively at Okinawa coast. Dietary fiber occupying most of Mozuku isn't digested and absorbed by digestive enzyme of human. In this study, we were investigated the dietary fiber content and antioxidant activity of Mozuku per extraction condition. We examined that the content of total flavonoid and polyphenol content. The flavonoid content in the dietary fiber from Mozuku were the highest in 0.5 M sodium phosphate buffer and 0.5% Na₂CO₃(26 µg/mL). The polyphenol content in the dietary fiber from Mozuku were the highest in 0.05N HCl(18.4 µg/mL). In the result of cell viability in HT-29(human colon cancer cells) and 3T3-L1(lipocytes), growth inhibition was observed in PBS extracts.