

Total phenolics content and antioxidant activity of hot water extracts from dried *Ficus deltoidea* leaves

ABSTRACT

Total phenolics content and antioxidant activity of hot water extracts at temperatures ranging from 55 °C to 107 °C and several sample-to-water ratios (ranging from 1:45 to 1:120, g:ml) were determined for the dried leaves of two accessions of *Ficus deltoidea*. Total phenolics content and antioxidant activity had higher values in accession MFD 6. A significant difference ($p < 0.05$) in the total phenolics content between the ratios of 1:45 and 1:120 was observed in both accessions at all temperatures tested. However only the temperature of 107 °C caused a significant difference ($p < 0.01$) in antioxidant activity between the ratios of 1:45 and 1:120 in both accessions. A positive linear correlation ($R^2 = 0.6560.76$) which was statistically significant ($p < 0.01$) was demonstrated between radical scavenging activity and total phenolics content in both accessions. The data indicate that *F. deltoidea* leaf has potential as a good source of phenolic antioxidants.

Keyword: *Ficus deltoidea*; Total phenolics; Antioxidant activity; Hot water extracts; Mas cotek