academicjournals.net



Chromatography (HPLC). The antioxidant properties were determined by the reducing power assay, radical scavenging assay and the α -carotene linoleic acid model system. Oregano had the highest total phenolic compound concentration of 15.83 mg GAE gG¹ and cinnamon had the highest polyphenolic compound concentration of 13.66 mg GAE gG¹. Marjoram had the highest proportion of simple phenolic compounds of 95.57%. Ascorbic acid was used as a control in all the antioxidant assays. At 25 mg mLG¹ cinnamon and oregano recorded a high reducing power activity with absorbance of 0.12, while parsley had the lowest activity with absorbance of 0.075 at 655 nm. Cinnamon and marjoram had the highest radical scavenging activities of 92.0 and 91.3% respectively while at a concentration of 5 mg mLG¹, parsley had the least radical scavenging activity of 47.90%. Cinnamon and oregano had the highest antioxidant activities of 61.76 and 58.28%, respectively while sweet basil had the lowest activity of 6.67%. Most of the spices showed better antioxidant properties than ascorbic acid. HPLC analysis detected gallic acid, protochatechuic acid, p-hydroxybenzoic acid, p-hydroxybenzaldehyde, vanillic acid, caffeic

Find similar articles in ASCI Database
Phenolic acids, antioxidant, spices and tannin and free radicals

acid, p-coumaric acid and ferullic acid in the studied spices.

Home : Journals : About Us : Support : Join us

@2007 AcademicJournals