Abstract

A new isoflavanone namely 3,5,7,2′,4′-pentahydroxy-8,3′-di(γ,γ-dimethylallyl)isoflavanone (bolusanthin II) and four new pterocarpans identified as 3-hydroxy-6′,6′-dimethylpyrano[2′,3′:1,2] [6a*R*,11a*R*]-8,9-methylenedioxypterocarpan (bolucarpan A), 3-hydroxy-6′,6′-dimethyl-4′,5′-dihydropyrano[2′,3′:1,2][6a*R*,11a*R*]-8,9-methylenedioxypterocarpan (bolucarpan B), 3-hydroxy-9-methoxy-6′,6′-dimethylpyrano-[2′,3′:1,2][6a*R*,11a*R*]-pterocarpan (bolucarpan C) and 3-hydroxy-9-methoxy-6′,6′-dimethyl-4′,5′-dihydropyrano[2′,3′:1,2][6a*R*,11a*R*]-pterocarpan (bolucarpan D) and three known isoflavonoids were isolated from the methanolic extracts of the root bark, while eight known isoflavonoids were isolated from the stem bark of *Bolusanthus speciosus*. These compounds showed antimicrobial activity against *Bacillus subtilis*, *Staphylococcus aureus*, *Escherichia coli*, *Saccharomyces cerevisiae* and *Candida mycoderma* using the agar overlay technique.