Chemical constituents from the roots of Cassia fistula L.

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Abstract

The chemical constituents in the roots of Cassia fistula L. were investigated with column chromatography. Nineteen compounds including seven anthraquinones, chrysophanol (1), physcion (2), emodin (3), aloe-emodin (4), 11-acetylaloe-emodin (5), rhein (6), citreorosein (7); four flavan-3-ols, (-)-epiafzelechin (8), (+)-afzelechin (9), (-)-epicatechin (10), (+)-catechin (11); three sterols, a mixture of β-sitosterol (12) and stigmasterol (13), β-sitosterol-3-O-β-glucopyanoside (14); one triterpene, lupeol (15); and four glycerides, a mixture of glycerol-1-tetraeicosanoate (16) and glycerol-1-pentaeicosanoate (17), trimyristin (18), and glyceryl trilinolate (19) were determined by spectroscopic analysis.