



ANTIMICROBIAL ACTIVITY OF EXTRACTS AND COMPOUNDS ISOLATED FROM CASSIA ITALICA AERIAL PARTS

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Abstract:

Phytochemical investigation of *Cassia italica* Mill. (Fabaceae) aerial parts collected from Saudi Arabia gave nine compounds: β -sitosterol (1), (22E)-3- β -hydroxycycloart-22-en-24-one (2), uvaol (3), daucosterol (4), methyl 3,4-dihydroxybenzoate (5), emodin (6), 4-hydroxyphenyl-O- β -D-glucopyranoside (7), aloin B (8), and rutin (9). Their structures were established by extensive spectroscopic study, in addition to co-chromatography with authentic samples. The total MeOH extract (TME), different fractions, and compounds 1-9 were assessed for their antimicrobial effects using agar plate diffusion assay. The TME, EtOAc fraction, and compounds 5-9 showed significant antimicrobial activity against the tested microbial strains.

Keywords:

Cassia italica, Sterols, Triterpenes, Phenolics, Anthraquinones, Antimicrobial.

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