



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.11 No.09, pp 353-363, 2018

Spectral characterization of bioactive compounds from *Costus pictus* and *Costus speciosus*

M. Feroze Khan and A.Ramu^{1*}

Department of Inorganic Chemistry, Madurai Kamaraj University, Madurai, India

Abstract : The present study was made an attempt to characterize the chemical classes of the fractions showed promising biological activity against the chosen bacterial pathogens. Five chemical classes have been identified by the present study viz., 6-hydroxy-benzoxazolinone, (Z)-4-Coumaric acid 4-o-β-D-glucopyranoside, 3, 5-dimethoxy- 4-hydroxy benzoate, 2, 3-secoatisane type diterpene and 3, 4, 5-trihydroxy benzoate. Of these, 6-hydroxy-benzoxazolinone, (Z)-4-Coumaric acid 4-o-β-D-glucopyranoside and 3, 5-dimethoxy- 4-hydroxy benzoate were identified from *Costus speciosus* and 2, 3-secoatisane type diterpene and 3, 4, 5-trihydroxy benzoate were identified from *Costus pictus*. It is important to observe that, 3, 5-dimethoxy- 4-hydroxy benzoate has identified as new compound from *Costus speciosus* but the other compounds were identified previously by several authors.

A.Ramu *et al* /International Journal of ChemTech Research, 2018,11(09): 353-363.

DOI= <http://dx.doi.org/10.20902/IJCTR.2018.110941>
