

**STUDIES ON MARINE ORGANISMS OF SRI LANKA : DISTRIBUTION OF STEROLS AND THEIR DERIVATIVES**

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During our studies directed towards the isolation of biologically active constituents from marine organisms of Sri Lanka, we carried out a preliminary survey of two unidentified organisms, a soft coral and a sea anemone, for their regular sterol composition.

Regular sterol mixtures were obtained from the light petroleum extracts of these organisms by column and preparative thin-layer chromatographic separations and their compositions studied by gas chromatography and gas chromatography-mass spectrometry (GC-MS). Sterol mixture from the sea anemone was found to contain cholesterol (minor) and  $24\beta$ -methylcholesterol (major). Sterol mixture derived from the soft coral contained cholesterol, brassicasterol (22-dehydrocampesterol),  $24\beta$ -methylcholesterol, 23-demethylgorgosterol, and gorgosterol (major).

From the hot methanol extract of an unidentified sea cucumber (Holothurian), after acidic hydrolysis, was obtained a pure compound, m.p.  $315-316^{\circ}\text{C}$ ,  $(\alpha)_{\text{D}}^{20}$ , whose spectral data indicated it to be the known 22,25-oxidoholothurinogenin.