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Preparation, Spectroscopic Studies and Biological Activity of Mono-organotin(IV) Derivatives of Non-Steroidal Anti-inflammatory Drugs

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Abstract: A set of 14 mono-organotin(IV) derivatives of general formulae $n\text{-BuSnCIL}_2$ and $n\text{-BuSnL}_3$, where 'L' are various non-steroidal anti-inflammatory drugs (NSAIDs), were synthesized and structurally characterized by vibrational, ^1H , ^{13}C and ^{119}Sn spectroscopies and mass spectrometry to propose their structure. Biological activity data (antibacterial, antifungal and cytotoxicity) of the synthesized complexes were compared with the precursors to establish the significance of the complexes.

Key Words: Mono-organotin(IV) derivatives, non-steroidal anti-inflammatory drugs, biological activity.

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