

P-073: PALMEROLIDE STEREOCHEMICAL ANALYSES: DEGRADATION STUDIES OF TYLOSIN AS A MODEL COMPOUND

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Palmerolides belong to a family of macrocyclic lactones isolated from the Antarctic tunicate *Synoicum adareanum*. Among their structural features are several chiral centers flanked by olefins. The assignment of these stereocenters, conducted originally using derivatization and spectroscopic techniques, will be confirmed by chiral pool syntheses of degradation products derived from olefin cleavage methods. These methods are being developed using tylosin, a 16-member macrolide originally isolated from bacteria (*Streptomyces fradiae*), since it shares relevant structural characteristics with the palmerolides. Ozonolysis and olefin metathesis products from these compounds will be described.