## STEREOISOMERIC EFFECT IN ELECTRON IMPACT REACTION (EI/MS) OF COMPOUNDS HAVING SULFUR CONTAINING RING (DITHIOLANE AND DITHIANE)

Tetsuichi SHIBATA, Tamiko OHKURA and Seiichi INAYAMA

Pharmaceutical Institute, School of Medicine, Keio University

35 Shinanomachi, Shinjuku-ku, Tokyo 160, Japan

To examine the function of divalent sulfur for stereochemical recognition,

tetrahydro- $\ell$ - $\alpha$ -santonin derivatives having acetal and dithioacetals (dithiolane and dithiane rings) at  $C_3$  were prepared and impacted by electron beam (70 eV) resulting a specific fragmentation of  $\Lambda$ -type fission as shown Fig. 1.

A small stereospecific differences (4S > 4R and 5S < 5R) of relative intensity of fragment ions ( $\underline{b}$  and  $\underline{c}$ ) caused by  $\underline{B}$ - and  $\underline{C}$ -types fission were obtained when  $\underline{A}$ -type fission are dominant fragmentation of above compounds

in the course of electron impact reaction at 70 eV.



