

# Elaeocarpus alkaloids. The synthesis of dl-elaekanine-A and dl-elaekanine-C

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## ABSTRACT

dl-Elaekanine A (I) and dl-elaekanine C (II), which occur in *E. kaniensis*, were prepd. by a method involving a nitronc cycloaddn. to generate a  $\beta$ -amino ketone. 1-Pyrroline 1-oxide with 1-pentene (110 ; sealed tube) gave 72% of an isoxazolidine, which on catalytic hydrogenolysis (yield 90%) and Jones oxidn. gave the  $\beta$ -amino ketone III. III with acrolein in C<sub>6</sub>H<sub>6</sub> contg. KOCMe<sub>3</sub> gave 45% of a 4:1 mixt. of I and aldehyde IV. III with acrolein in CH<sub>2</sub>Cl<sub>2</sub> followed by treatment with concd. HCl (2 h, 25 °C) gave 44% of a 3:1 mixt. of II and IV.

