

SYNTHESIS OF CARDIOACTIVE STEROIDS. MODIFIED
SYNTHETIC ROUTE TO ISOCARDENOLIDE

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A modified synthetic route to isocardenolide (1) via furan intermediate (2) was studied. The diene (3) could easily be synthesized from carbinol (4) or acetate (5). Organometallic reduction of diene (3) to Δ^{14} , 17 β -furyl compound (2) was successfully achieved. Compound (2), when treated with NBA in aqueous acetone, the furan ring of (2) was transformed to isolactone ring of compound (6). Therefore, the present synthetic route via new intermediate (2) should serve as an attractive alternative toward isocardenolide (1).

