

Annotation

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**Synthesis of N-triphenylsilyl-benzocaine-N-2,3,4-tri-O-acetyl- β -D-xylopyranoside
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N-glycosylamines are products of the interaction of carbohydrates with alkyl- and arylamines; pharmacologists consider N-glycosylamines as a potential source of new drugs, Because they are the structural units of natural compounds and they can occur under biological conditions. The synthesis of new types of N-glycosylamine derivatives is a promising scientific direction. Based on such compounds, new biologically active substances can be created, which will be promising for use in medicine and agriculture.

The goal of our work was to synthesize a new type of silicon-containing benzocaine-N-2,3,4-tri-O-acetyl- β -D-xylopyranoside.

N-silylation of benzocaine-N-2,3,4-tri-O-acetyl- β -D-xylopyranoside (3) was carried out using triphenylchlorosilane and zinc dust in dry chloroform at room temperature. N-triphenylsilyl-benzocaine-N-2,3,4-tri-O-acetyl- β -D-xylopyranoside (4) was obtained for the first time according to the following scheme:

The structures of obtained compounds were established by physical-chemical methods of analysis.