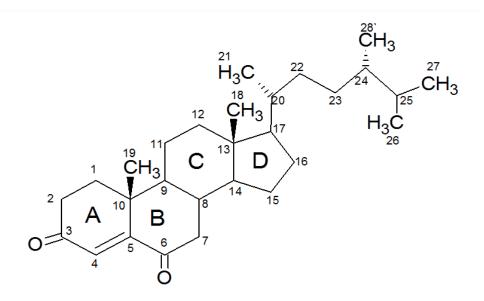
## STUDY OF ALKALOIDON PLANT ACONITUM SEPTENTRIONALEA

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A useful alternative source of natural steroids for scientific and practical purposes may be the waste of targeted extraction of a medicinal plant in industrial quantities. In particular, to obtain the substance of the drug "allapinin" in the experimental production of the Institute of Chemistry of Plant Substances a large amount of alkaloid-bearing plant Aconitum septentrionale is extracted. From the post-extraction industrial waste of the alkaloid-bearing plant Aconitum septentrionale, β - sitosterin of the composition

C<sub>29</sub>H<sub>50</sub>O was isolated; 135–137°C and new phytosteroid 24S – ergost-4-ene-3,6-dione (pic.).



The structure of the isolated compound was established by X-ray diffraction analysis, the 1H and 13C NMR spectrum data and IR spectroscopy are analyzed and analyzed. Disorder of the atoms of the terminal 24-methyl, 24-isopropyl group is observed in the crystal structure of the steroid, which is fixed in two positions in the ratio 0.55-0.45.

References

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