

## STEROID SAPOGENINS OF CESTRUM ELEGANS AND C. PARQUI

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Two species of the genus Cestrum (family Solanaceae) are cultivated in the Georgian SSR: C. elegans Schlecht and C. parqui L. Her.

From the leaves of C. elegans growing in the Batumi botanical garden, by known methods [1-4] we have isolated two steroid substances: mono- and dihydroxysapogenins.

**Monohydroxysapogenin.** Mp 199-202° C,  $[\alpha]_D^{20} -64^\circ$  (c 1.00, chloroform). The substance appeared on paper and thin-layer chromatograms at the level of an authentic sample of tigogenin. A mixture gave no depression of the melting point. The IR spectra of the sapogenin and its acetate coincide completely with those of tigogenin and tigogenin acetate. The yield of tigogenin was 0.075%.

**Dihydroxysapogenin** obtained from the leaves of C. elegans was identified as gitogenin with mp 269-272° C,  $[\alpha]_D^{20} -75^\circ$  (c 1.00, chloroform); mp of the diacetate 240-242° C,  $[\alpha]_D^{20} -105^\circ$  (c 1.00, chloroform). The IR spectra of this substance and its diacetate correspond with the IR spectra of gitogenin and gitogenin acetate. The yield of gitogenin was 1.24%.

Two monohydroxysapogenins were detected in the leaves of C. parqui. Of them one has been isolated, with mp 199-200° C,  $[\alpha]_D^{20} -64^\circ$  (c 1.00, chloroform). A mixture with tigogenin gave no depression of the melting point. The IR spectra of the sapogenin and its acetate confirmed the fact that the compound obtained was tigogenin. The yield of the latter was 0.34%.

A second monohydroxysapogenin could not be isolated because of the small amount present.

## REFERENCES

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