

*Sasanqua camellia* *Camellia sasanqua*, family Theaceae, is an evergreen plant cultivated in a number of countries as a foodstuff. It has been studied inadequately in the chemical respect. It is a promising industrial source of eugenol in the Adzhar ASSR. We have subjected to analysis the green mass of the plant gathered in the Batumi region.

Sugars, tanning substances, ascorbic acid, carotenoids, and nitrogenous substances were determined by the methods generally adopted [1-5]. To determine the qualitative composition of the flavonoids, 500.0 g of air-dry leaves was extracted with chloroform and then with 80% ethanol. The alcoholic extracts were evaporated, the dark green precipitate was separated off, the clarified extract was washed with heptane and the phenolic compounds were extracted with ethyl acetate. The combined ethyl acetate extracts were dried with anhydrous sodium sulfate, the solvent was distilled off to small volume, and this residue was poured into a tenfold volume of heptane. A light yellow precipitate of flavonoids deposited.

Hydrolysis of the total flavonoids showed the presence of only one aglycon - quercetin. One of its glycosides predominated in the total flavonoids, and this corresponded in its physical constants and the results of IR and UV spectroscopies to quercetin 3,7-di-O- $\beta$ -D-glucopyranoside. A second compound was identified as isoquercetin (quercetin 3- $\beta$ -D-glucopyranoside). The glycosides were separated with the aid of gel filtration through Molselekt G-25.

The chemical composition of the leaves of *sasanqua camellia* is given below (mean results of 10 experiments):

Substance	Amount, % of the fresh mass
Dry matter	48.5
Sugars	
total	13.8
invert	8.6
sucrose	5.2
Cellulose	16.5
Nitrogenous substances	0.53
Tanning substances	3.6
Ascorbic acid	20.4 mg/100 g
Carotenoids	9.3 mg/100 g
Eugenol	2.1

## LITERATURE CITED

1. Methods for the Biochemical Investigation of Plants [in Russian], Kolos, Leningrad (1972).
2. GOST [State Standard] 13979. 10-69 [in Russian], Izd. Standartov, Moscow.
3. GOST 5903-68. [in Russian], Izd. Standartov, Moscow.
4. GOST 19885-74. [in Russian], Izd. Standartov, Moscow.
5. GOST 8756.0-70 and 21-70. [in Russian], Izd. Standartov, Moscow.

---

Pyatigorsk Pharmaceutical Institute. All-Union Scientific-Research and Experimental Design Institute for the Storage and Processing of Subtropical Fruit, Batumi. Translated from *Khimiya Prirodnikh Soedinenii*, No. 3, pp. 427-428, May-June, 1991. Original article submitted June 20, 1990.