

We have continued a study of the alkaloid composition of *Corydalis gortschakovii* Schrenk [1-5] from various growth sites. The epigeal part of the plant collected at Alaudinsae, Kirgiz SSR, in the flowering phase (sample 1), the epigeal part of the plant collected at Shunkorsae, Kirgiz SSR, in the budding-incipient flowering stage (sample 2), and the epigeal part and roots of the plant collected in the Karabura pass, Kirgiz SSR, in the flowering phase (samples 3 and 4, respectively) were investigated.

We used chloroform extraction to obtain the total alkaloids. The individual alkaloids were isolated by chromatography on a column of silica gel.

Alkaloid	Sample			
	1	2	3	4
1. Bicuculline				
2. Allumidine	+			
3. Stylophine	+			
4. Protopine	+		+	+
5. Domesticine	+	+	+	+
6. Isoboldine	+	+	+	
7. Cheilanthifoline	+			
8. Scoulerine	+		+	+
9. Thalictidine	+			+
10. Reticuline	+	+	+	
11. N-Methylcoclaaurine	+	+	+	
12. Isocorydine		+	+	
13. Corydine		+	+	
14. Bracteoline		+		
15. Corunnine	+			

The alkaloids isolated were identified by direct comparison with authentic samples. Scoulerine [2], reticuline [6], cheilanthifoline [6], and corunnine [8] have been isolated previously from *C. gortschakovii* and thalictidine [8] and N-methylcoclaaurine [9] from plants of the genus *Corydalis*.

Analysis of the results obtained showed that the alkaloids of *C. gortschakovii* obtained from various growth sites differed both in the qualitative and in the quantitative respects. The main alkaloid of the epigeal part of the plant collected at Allauddinsae was bicuculline, at Shunkorsae it was isocorydine, at the Karabura pass it was domesticine, and in the roots of the last-mentioned sample it was protopine.

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