

Flechte. Toninia conglomerata (Ach.) Boist. (*Lecidaeceae*). *Herkunft*. Bulgarien, Pirin-Gebirge, 1970 gesammelt.

Thallusreaktionen. Mark K und PD gelb. *Aufarbeitung und Ergebnis*. Im Acetonextrakt der Probe laut DC (Kodak-Chromaplate K 301 R 2, Toluol-Ät₂O-HOAc, 3:6:1, PD) Atranorin (Hauptmenge), Stictinsäure und eine weitere, nicht identifizierte PD + gelb Substanz vom R_f 0,05.

Anerkennungen—Vergleichsproben der untersuchten Flechten befinden sich im Herbar des Verfassers, der den Herren Professor Dr. J. Poelt, Berlin, Professor Dr. I. M. Lamb, Cambridge, U.S.A., P.D. Dr. Ch. Leuckert, Berlin, cand. mag. O. Vevle, Bergen, und Dipl.-Biol. K. F. Günther, Halle, für die Beschaffung und Bestimmung der Flechten herzlich dankt.

Key Word Index—Lichens; lichen acids; depsides.

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CONSTITUENTS OF *TELEOCHISTES FLAVICANS*

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Plant. Teleochistes flavicans (Sw) Norm. *Source*. Growing on low bushes near Laguna La Victoria (alt. 3000 m), State of Mérida, Venezuela. *Previous work*. Vicanicin, fallacinal, parietin, telochistin and unidentified colourless substances isolated¹ from other geographical races.

Present work. The orange coloured lichen (150 g) was air-dried, milled, continuously extracted with benzene until exhaustion, and the solvent evaporated to yield an orange solid (8.2 g), TLC analysis on silica gel HF₂₅₄ (benzene-dioxane-HOAc, 90:25:4) showed the solid to consist of two compounds; the major component at R_f 0.62 and a slight trace of the second at R_f 0.48. The compounds were separated using PLC (above system). The major component was shown (IR, UV, TLC) to be parietin m.p. 205–206° (HOAc), diacetate m.p. 185–186° (benzene-hexane), dimethyl ether m.p. 224–225° (benzene-hexane), MS m/e 284, 255, 254, 241, 226, 213, 198, 185, 167, 149. The minor compound was shown (IR, UV, TLC) to be identical with fallacinal m.p. 250–251°.

The plant residue was then continuously extracted with acetone for three days and the solvent evaporated to afford a brown solid which after crystallization from EtOH-ether (carbon) yielded crystals (2.1 g) m.p. 100–111°, $[\alpha]_D^{20} +7.7$ (sat. Na₂B₄O₇ solution) pentaacetate m.p. 74–75°, $[\alpha]_D^{20} +37.1$ (CHCl₃). Comparison of these properties with those published for D-arabitol suggested identity which was confirmed by comparison (IR, acetate, benzylidene derivative² m.p. 151–152° (EtOH)) with an authentic sample.

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¹ C. F. CULBERSON, *Chemical and Botanical Guide to Lichen Products*, p. 525, The University of North Carolina Press (1969).

² W. C. HASKINS, R. M. HANN and C. S. HUDON, *J. Am. Chem. Soc.* **65**, 1663 (1943).

Key Word Index—*Teleochistes flavicans*; Lichens; parietin; fallacinal; D-arabitol.