

The dry comminuted lichen *Thamnolia subuniformis* (Ehrh.) W. Culb, collected in August, 1975, in the Ten'kinskii region of Magadan oblast (133 g) was extracted with boiling petroleum ether (70-100°C). The extract obtained (dry weight of the residue 0.85 g) was chromatographed on a column of KSK silica gel (150-175 mesh). The chloroform-petroleum ether (4:1 → 10:1) system eluted 0.10 g of a product which, after rechromatography and recrystallization had mp 179.5-181.5°C (hexane), $[\alpha]_D^{25} -28.2$ (c 0.49; chloroform). Mass spectrum: 428 (M^+); literature data [1]: mp 181.5-183°C, $[\alpha]_D^{20} -29 \pm 3^\circ$ (chloroform); [2]: mp 183-184°C, $[\alpha]_D -23.9^\circ$; [3]: mp 177-183°C, $[\alpha]_D^{22} -25.7^\circ$ (acetone). NMR spectrum ($CDCl_3$, δ scale, ppm): 0.80-1.03 (18H), 3.92 (1H, multiplet), 5.15-5.22 (2H, multiplet), 6.37 (2H, quartet, $\delta = 25$ Hz, $J = 8.44$ Hz). IR spectrum (KBr): 3540, 3420, 1380, 1050, 975 cm^{-1} . Acetate: mp 199.5-202°C (methanol-ethanol), $[\alpha]_D^{21} -22.5^\circ$ (c 0.55; chloroform): literature data [1]: mp 202.5-203.5°C, $[\alpha]_D^{20} -23^\circ$ (chloroform); [3]: mp 201-203°C (aqueous methanol). Mass spectrum: 470 (M^+), 410, 392, 377, 376, 374, 285, 267, 251, 249. NMR spectrum ($CDCl_3$, δ scale, ppm): 0.81-1.04 (18H), 2.01 (3H, singlet), 4.97 (1H, multiplet), 6.37 (2H, quartet, $\delta = 26.74$ Hz, $J = 8.44$ Hz). IR spectrum (KBr): 1735, 1660, 1375, 1247, 1035, 990, 975 cm^{-1} .

Thus, the compound isolated has been identified by the similarity of its physical constants to those given in the literature [1-3], and by the elementary analyses and NMR, IR, and mass spectra of the compound itself and of its acetate, as ergosterol peroxide [3-5].

LITERATURE CITED

1. P. Wieland and V. Prelog, *Helv. Chim. Acta*, **30**, 1028 (1947).
2. R. Takahashi, O. Tanaka, and S. Shibata, *Phytochem.*, **11**, 1850 (1972).
3. E. P. Serebryakov, A. V. Simolin, V. F. Kucherov, and B. V. Rosynov, *Tetrahedron*, **26**, 5215 (1970).
4. M. J. Vacheron and G. Michel, *Phytochem.*, **7**, 1645 (1968).
5. M. Kócor and A. Schmidt-Szatowska, *Bull. Acad. Polon. Sci., Ser. Sci. Chim.*, **20**, 515 (1972).

Pacific Ocean Institute of Biorganic Chemistry, Far Eastern Center of the Academy of Sciences of the USSR, Vladivostok. Translated from *Khimiya Prirodnkh Soedinenii*, No. 4, pp. 551-552, July-August, 1976. Original article submitted February 9, 1976.

This material is protected by copyright registered in the name of Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise, without written permission of the publisher. A copy of this article is available from the publisher for \$7.50.