FLAVONOIDS OF PLANTS OF THE GENUS Veronica

N. F. Gusev, S. V. Teslov, and N. M. Guseva

UDC 547.972.2

In a phytochemical investigation of some plants of the genus <u>Veronica</u> L., growing in the Kungursko-Krasnoufimskii forest steppe of the pre-Urals we have found flavonoids.

The herbage collected in the period of flowering of the plants was investigated. By two-dimensional chromatography on paper, using generally adopted color reactions, different numbers of flavonoids were found: in Veronica officinalis L. (drug speedwell) 12, in V. chamaedrys L. (germanda speedwell) 10, in V. spicata L. (spike speedwell) 15, in V. teucrium L. (Hungarian speedwell) 9, in V. logifolia L. 13, and in V. spuria L. (bastard speedwell) 16.

We have made a detailed investigation of the herbage of <u>Veronica officinalis</u> L., Scrophulariaceae Lindl. (drug speedwell). By adsorption chromatography on polyamide from a methanolic extract of the herb we isolated one individual substance and Bryant's test showed its aglycone nature. The acetyl derivative of the substance had mp 184-187°C which corresponds to apigenin acetate [2].

According to chromatography and spectral investigations in the UV region with ionizing and complex-forming reagents [1] and from the absence of a depression of the melting point with an authentic sample, the flavonoid obtained can be characterized as 4',5,7-trihydroxyflavone – apigenin.

Apigenin was also identified by paper chromatography with a marker in the other species studied apart from V. teucrium L.

LITERATURE CITED

- 1. V. I. Litvinenko and N. P. Maksyutina, Khim. Prirodn. Soedin., 420 (1965).
- 2. J. Gripenberg, "Flavones" in: The Chemistry of Flavonoid Compounds (edited by T. A. Geissman), Pergamon, New York (1962).

Perm Pharmaceutical Institute. Translated from Khimiya Prirodnykh Soedinenii, No. 4, pp. 521-522, July-August, 1974. Original article submitted January 29, 1974.

©1976 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 \$15.00.