

ISORHAMNETIN 3-GALACTOSIDE

FROM *Onobrychis Angustifolia*

I. I. Moniava and É. P. Kemertelidze

UDC 547.972.2

We have previously reported the isolation of hyperin and rutin [1] from the leaves of *Onobrychis angustifolia* Chinth. A third flavonoid which we have obtained from this plant in the individual crystalline state has the composition $C_{22}H_{22}O_{12}$, mp 211-212°C, $[\alpha]_D^{20} -120^\circ$ (c 0.1; ethanol). On treatment with alkali, the substance fluoresced dark yellow in UV light, and after hydrolysis it fluoresced bright yellow. UV spectrum: $\lambda_{\text{max}}^{C_2H_5OH}$ 254, 355 nm; $\lambda_{\text{max}}^{AlCl_3}$ 269, 402 nm.

The acid hydrolysis of the flavonoid with 2% sulfuric acid formed an aglycone with mp 294-295°C.

The IR and UV spectra of the aglycone corresponded to those of isorhamnetin [2]. The sugar component of the flavonoid was identified as galactose.

The facts given above give grounds for assuming that the substance studied is isorhamnetin 3-galactoside, or cacticin [3].

This is the first time that this glycoside has been isolated from the genus *Onobrychis*.

LITERATURE CITED

1. I. I. Moniava and É. P. Kemertelidze, *Khim. Prirodn. Soedin.*, **7**, 118 (1971).
2. V. A. Bandyukova and S. F. Dzhumyrko, *Rast. Res.*, **4**, 37 (1968).
3. L. Horhammer, H. Wagner, H. Gunter, and L. Farkas, *Chem. Ber.*, **99**, 1384 (1966).

I. G. Kutateladze Institute of Pharmacochemistry, Academy of Sciences of the Georgian SSR. Translated from *Khimiya Prirodnikh Soedinenii*, No. 6, p. 833, November-December, 1971. Original article submitted May 7, 1971.

© 1974 Consultants Bureau, a division 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 \$15.00.