

FLAVONE-C-GLYCOSIDES IN *HELENIUM* SPECIES

H WAGNER and M A IYENGAR

Institut für Pharmazeutische Arzneimittellehre der Universität München, München, Germany

and

W HERZ

Department of Chemistry, Florida State University, Tallahassee 32306, U S A

(Received 13 August 1971)

Plant. Helenum alternifolium (Spreng) Cabrera *Source* Collected by P R. Legname in 1966, near Tucuman, Argentina *H autumnale* L *Sources* (1) (whole plant) Collected by Dr. McDaniel in Alabama, September 1967 (McDaniel voucher 9867) (2) (whole plant). Collected by R Lazor in September 1968, 13 miles south of Moultrie, Georgia (Godfrey-Lazor voucher 1185 on deposit in herbarium of Florida State University) *Previous work on H alternifolium from various sources* 3',6-Dimethoxy-4',5,7-trihydroxyflavone,¹ sesquiterpene lactones¹ The collection used in the present work gave¹ brevilin A, linifolin A, tenulin and an unidentified lactone C₁₉H₂₆O₅ *On H autumnale from various sources* Sesquiterpene lactones^{2,3} The collections used in the present work gave² helenalin

Compounds isolated Saponaretin, iso-orientin, vitexin and orientin were isolated from the methanolic extracts of the plants by methods described previously⁴ and identified by direct comparison with authentic material by mixed m p, co-chromatography (TLC, 3 solvents), UV and IR analysis

Acknowledgements—M A Iyengar thanks the Alexander von Humboldt Foundation for a Research Fellowship This investigation was also supported in part by U S Public Health Service (RG-GM-05814)

¹ W. HERZ, C M GAST and P S SUBRAMANIAM, *J Org Chem* **33**, 2780 (1968)

² Reviewed by W HERZ, P S SUBRAMANIAM and N DENNIS, *J Org Chem* **34**, 2915 (1969)

³ H HIKINO, D KUWANO and T TAKEMOTO, *Chem Pharm Bull* **16**, 1601 (1968)

⁴ H WAGNER, M A IYENGAR, E MICHAELLES and W HERZ, *Phytochem* **10**, 2547 (1971)

Key Word Index—*Helenum* spp, Compositae, Glycoflavones, saponaretin, orientin

THE CONSTITUENTS OF *HELICHRYSUM STOECHAS*

TERESA GARCÍA DE QUESADA, B RODRÍGUEZ and S VALVERDE

Instituto de Química Orgánica General, C S I C, Juan de la Cierva 3, Madrid-6, Spain

(Received 6 May 1971)

Abstract—The aerial parts of *Helichrysum stoechas* (L) D C have yielded ursolic and oleanolic acids, uvaol and erythrodiol, β -sitosterol and stigmasterol (both free and combined as the β -glucoside), fatty acids, the acetophenone (I), a related alcohol (II) and a new chroman (III)