

ONAGRACEAE

FLAVONOL-GLYCOSIDES IN *OENOTHERA HOOKERI*

H. D. ZINSMEISTER and W. BIERING

Botanisches Institut der Universität des Saarlandes, 66 Saarbrücken 15, BRD

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Key Word Index—*Oenothera hookeri*; Onagraceae; quercetin and kaempferol glycosides.

Plant and source. *Oenothera hookeri* T. et G. Plants were cultivated from seeds which were collected by Dr. Chrometzka* from plants in the Botanical Garden, Saarbrücken. A voucher specimen is deposited in the Herbarium Zinsmeister, Botanisches Institut der Universität des Saarlandes, Saarbrücken. **Previous work.** On different species of *Oenothera*,^{1,2} on *O. biennis*,³ and on *O. lavandulæfolia*.⁴

Plant part examined. Leaves of rosettes. 1.5 g of air-dried material were extracted as described earlier.² The flavonol glycosides were separated by two dimensional TLC on microcrystalline cellulose (Avicel) in: sec-BuOH-HOAc-H₂O, 14:1:5 and 6% HOAc. They were isolated by elution of the adsorbent with 80% MeOH. Identification of the glycosides, their aglycones and sugars, was done using the following methods: *R*_fs in several different solvents on cellulose, silica gel G, kieselguhr G; fluorescence in the UV with and without NH₃ vapour; colour-reactions⁵ with Naturstoffreagenz A,⁶ AgNO₃-NH₃, AlCl₃, Pb(CH₃COO)₂-Pb(OH)₂, ZrOCl₂, aniline phthalate, anisaldehyde; hydrolysis;⁷ UV spectra in MeOH and MeOH + NaOMe;⁸ comparison with authentic samples and co-chromatography.

Compounds isolated. Quercetin-7-*O*-rhamnoside, quercetin-3-*O*-glucoside, quercetin-3-*O*-galactoside (hyperoside), quercetin-3-rhamnoglucoside (rutin), quercetin-3-arabinoside, a kaempferol galactoside and two minor not yet completely identified flavonol glycosides, probably quercetin glycosides.

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