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AURONE GLYCOSIDES OF *ANTIRRHINUM ORONTIUM*

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Plant. Antirrhinum orontium L. (*Misopates orontium* (L.) Raf.) has been placed in the unclassified section of the Antirrhinae as it lacks aurones. *Source.* Seeds of two types, the (rarer) pale form of the British Isles and the magenta form, collected in Belgium, both obtained from Kew. *Previous work.* Dayton [1] and Harborne [2] both recorded the absence of aurones from this plant.

Present work. The presence of aureusidin-6-glucoside (aureusin) was confirmed and of bracteatin-6-glucoside inferred, both being present in, and along the base of, the corolla tube hairs. *Extraction.* Flowers of both types were extracted in 1% HCl in MeOH, this being used as the stock solution which was streaked onto Whatman 3MM chromatography paper. Purification and identification then proceeded according to standard methods [3, 4]. *Identification.* The faster of the two aurones co-chromatographed with aureusin-6-glucoside in six solvents (TBA, BAW, CAW, PhOH, 15% HOAc and 30% HOAc) and yielded aureusidin and glucose on acid hydrolysis. Spectrometry: faster aurone: λ_{max} 272, 321, 404 $\Delta\lambda$(alk) = +84, $\Delta\lambda(AlCl_3)$ = +63 faster aurone (hydrolysed) λ_{max} 253, 269, 400. The slower of the aurones cochromatographed with bracteatin-6-glucoside (aureusin and bracteatin-6-glucoside were both extracted from *sulf/sulf inc/inc* genotypes of *Antirrhinum majus*) in all six solvents, but there was too little of it to ascertain a precise structure. However, there seems little doubt as to its identity.

Discussion. Hitherto, the absence of aurones in *Antirrhinum orontium* has been used to separate it from the section Antirrhinum. This may no longer be employed as a criterion.

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COUMARIN GLYCOSIDES FROM *PEUCEDANUM OSTRUTHIUM*

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Key Word Index—*Peucedanum ostruthium*; Umbelliferae; scopolin; marmesinin; glycoside of oxypeucedanin hydrate.

Plant. Peucedanum ostruthium L. (Koch), syn. *Imperatoria ostruthium* L. - Umbelliferae, collected in South-Tyrol.* *Previous work.* Several coumarins, furocoumarins, a chromone, and hesperidin were previously isolated from the roots [1].

Present work. Dried roots (440 g) were extracted with C_6H_6. The residue of the benzene extract yielded osthol, ostruthin, ostruthol, isoimpera-

* The plant was kindly collected by F. Augscheller, St. Martin, South-Tyrol, Italy.