

A Dihydroflavonol with Taxonomic Significance from the Fern *Notholaena sulphurea*

Eckhard Wollenweber^{a,*}, Marion Dörr^a and Jan F. Stevens^b

^a Institut für Botanik der Technischen Universität, Schnittspahnstrasse 3,
D-64287 Darmstadt, Germany. Fax: 06151/164630.
E-mail: Wollenweber@bio.tu-darmstadt.de

^b Department of Chemistry, Oregon State University, 153 Gilbert Hall, Corvallis,
OR 97331, USA; Present address: Leibniz Institut für Pflanzenbiochemie,
Weinberg 3, D-06120 Halle/Saale, Germany

* Author for correspondance and reprint requests

Z. Naturforsch. **56 c**, 499–502 (2001); received February 16, 2001

Notholaena sulphurea, Farinose Indument, Flavonoids

A new flavonoid, 2,3-*trans*-5,2'-dihydroxy-7,8-dimethoxy-dihydroflavonol-3-O-acetate, was isolated from the farinose coating on the lower leave surface of the fern, *Notholaena sulphurea*. The 2,3-*cis* diastereoisomer was isolated as a co-constituent. This novel acylated flavonoid is characteristic for the chemotype of *N. sulphurea* exhibiting yellow frond exudate. Its orrurrence underlines the affiliation of the species with the genus *Notholaena*.