

Sipaucins A–C, sesquiterpenoids from *Siparuna pauciflora*

Phytochemistry, 2003, **63**, 377

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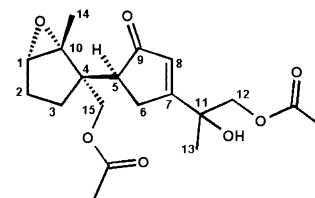
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From the leaves of *Siparuna pauciflora* (Monimiaceae) three sesquiterpenoids—sipaucins A–C—were isolated together with four known aporphine alkaloids.



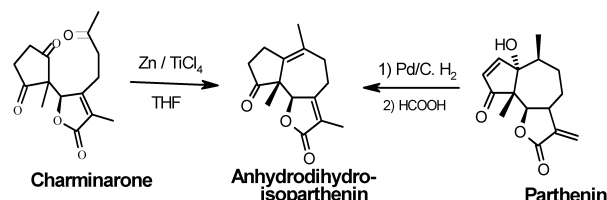
Charminarone, a *seco*-pseudoguaianolide from *Parthenium hysterophorus*

Phytochemistry, 2003, **63**, 383

B. Venkataiah, C. Ramesh, N. Ravindranath, Biswanath Das

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Chemical investigation on *Parthenium hysterophorus* afforded a *seco*-pseudoguaianolide, charminarone, whose structure was settled from its spectral data and its conversion by a reductive coupling reaction with Zn/TiCl₄ reagent to the known compound, anhydrodihydroisoparthenin.



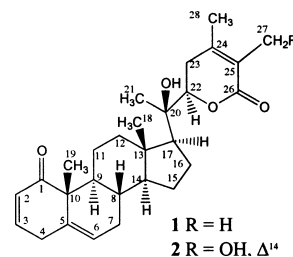
Withanolides from *Withania coagulans*

Phytochemistry, 2003, **63**, 387

Atta-ur-Rahman, Dur-e-Shahwar, Aniq Naz, M. Iqbal Choudhary

H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan

The methanolic extract of *Withania coagulans* yielded two withanolides, 20(β)-hydroxy-1-oxo-(22R)-witha-2,5,24-trienolide (**1**) and withacoagulin (**2**) along with a known steroidal lactone. Their structures were elucidated using spectroscopic techniques.



Studies of *ent*-kaurane diterpenes from *Oyedaea verbesinoides* for their inhibitory activity on vascular smooth muscle contraction

Phytochemistry, 2003, **63**, 391

Stefan Müller^a, Carlos R. Tirapelli^b, Ana M. de Oliveira^c, Renato Murillo^d, Victor Castro^d, Irmgard Merfort^a

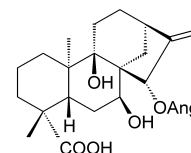
^aInstitute of Pharmaceutical Biology, University Freiburg, Stefan-Meier-Str. 19, 79104 Freiburg, Germany

^bDepartment of Pharmacology, School of Medicine of Ribeirão Preto, University of São Paulo (USP), Ribeirão Preto, SP, Brazil

^cLaboratory of Pharmacology, Faculty of Pharmaceutical Sciences, USP, Ribeirão Preto, SP, Brazil

^dEscuela de Química and CIPRONA, Universidad de Costa Rica, San José, Costa Rica

Isolation and structure elucidation of a new *ent*-kaurene based on NMR and mass spectra data are reported. Further *ent*-kaurenes were tested for their spasmolytic effects on rat aorta.



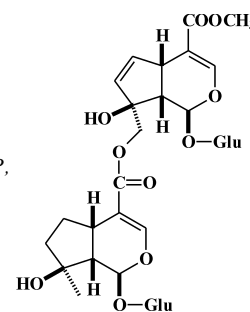
Iridoid glucosides from *Randia spinosa* (Rubiaceae)

Lidilhone Hamerski^a, Maysa Furlan^a, Dulce Helena Siqueira Silva^a, Alberto José Cavalheiro^a, Marcos Nogueira Eberlin^b, Daniela Maria Tomazela^b, Vanderlan da Silva Bolzani^a

^aNuBBE- Núcleo de Bioensaio, Biossíntese e Ecofisiologia de Produtos Naturais, Instituto de Química, Universidade Estadual Paulista- UNESP, CP-355, CEP 14800-900, Araraquara—SP, Brazil

^bThomson Mass Spectrometry Laboratory, Instituto de Química, Universidade Estadual de Campinas—UNICAMP, CP 6154, CEP 13083-970, Campinas—SP, Brazil

An iridoid glucoside, randinoside, along with five known iridoids: galioside, deacetylasperulosidic acid methyl ester, scandoside methyl ester, geniposide and gardenoside, were isolated from the stems of *Randia spinosa*.



Phytochemistry, 2003, 63, 397

Triterpenoid saponins from *Schefflera arboricola*

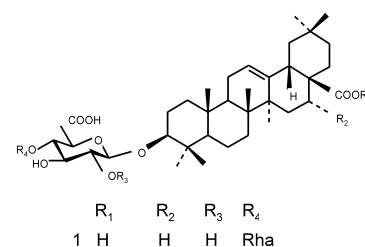
F.R. Melek^a, Toshio Miyase^b, S.M. Abdel Khalik^c, M.R. El-Gindi^c

^aChemistry of Natural Products Department, National Research Centre, Dokki, Cairo, Egypt

^bSchool of Pharmaceutical Sciences, University of Shizuoka, Shizuoka 422-8526, Japan

^cPharmacognosy Department, Faculty of Pharmacy, Helwan University, Cairo, Egypt

Nine triterpenoid saponins were isolated from the leaves and stems of *Schefflera arboricola*. The saponins were characterised, on the basis of chemical and spectral evidence.



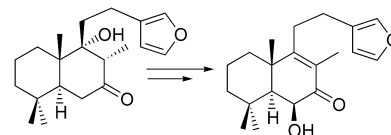
Phytochemistry, 2003, 63, 401

The absolute stereochemistry of a diterpene from *Ballota aucheri*

Christopher A. Gray, Douglas E.A. Rivett, Michael T. Davies-Coleman

Department of Chemistry, Rhodes University, Grahamstown, 6140, South Africa

The semi-synthetic transformation of hispanolone, isolated from *Ballota africana*, into 6 β -hydroxy-15,16-epoxylabda-8,13(16),14-trien-7-one has established an *ent*-labdane absolute stereochemistry for a diterpene metabolite originally isolated from *B. aucheri*.



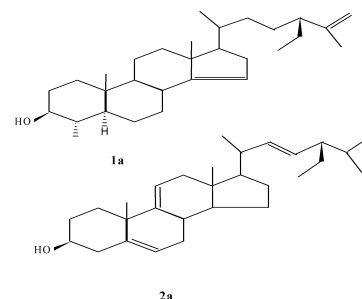
Phytochemistry, 2003, 63, 409

4 α -Methyl-24 β -ethyl-5 α -cholesta-14,25-dien-3 β -ol and 24 β -Ethylcholesta-5, 9(11), 22E-trien-3 β -ol, sterols from *Clerodendrum inerme*

Richa Pandey, Ram K. Verma, Subhash C. Singh, Madan M. Gupta

Central Institute of Medicinal and Aromatic Plants, Lucknow, 226015, India

From the aerial parts of *Clerodendrum inerme*, two new sterols, 4 α -methyl-24 β -ethyl-5 α -cholesta-14, 25-dien-3 β -ol (**1a**) and 24 β -ethylcholesta 5, 9(11), 22E-trien-3 β -ol (**2a**) and a new aliphatic ketone 11-pentacosanone were isolated together with another known aliphatic ketone, 6-nonacosanone and a diterpene, clerodermic acid.



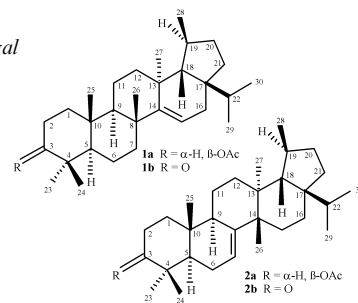
Pentacyclic triterpenes from *Euphorbia stygiana*

Elisabete M.C. Lima^a, Jorge M.R. Medeiros^a, Laurence B. Davin^b

^aDepartment of Technological Sciences, University of Azores, 9501-801 Ponta Delgada, Açores, Portugal

^bInstitute of Biological Chemistry, Washington State University, PO Box 646340, Pullman, WA 99164-6340, USA

Eight pentacyclic triterpenes possessing lupane, madeirane and taraxerane-type skeleta were isolated from leaves or stem bark of *Euphorbia stygiana* including madeiranyl acetate (**1a**) and isomadeiranyl acetate (**2a**). Structures were determined using physical, chemical, spectroscopic (including X-ray) and literature analyses.



Phytochemistry, 2003, 63, 421

Two biflavonoids from *Ouratea flava* stem bark

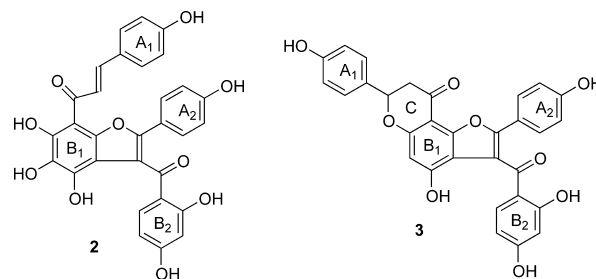
Joséphine Ngo Mbing^a, Dieudonné Emmanuel Pegnyemb^b, Raphael Ghogomu Tih^b, Beibam Lucas Sondengam^b, Alain Blond^c, Bernard Bodo^c

^aCentre de Recherches en Plantes Médicinales et Médecine Traditionnelle, I.M.P.M., B.P. 6163, Yaoundé, Cameroon

^bDepartment of Organic Chemistry, Faculty of Science, University of Yaounde I, PO Box 812, Yaounde, Cameroon

^cLaboratoire de Chimie des Substances Naturelles, ESA 8041 CNRS, Muséum National d'Histoire Naturelle, 63 Rue Buffon 75005 Paris, France

Two biflavonoids flavumones A (**2**) and B (**3**) and five known compounds were isolated from the stem bark of *Ouratea flava*. Their structures were assigned on the basis of spectroscopic and chemical methods.



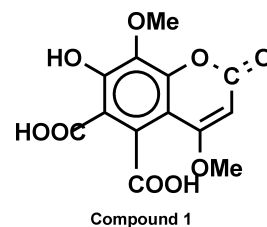
Phytochemistry, 2003, 63, 427

Unique phenolic carboxylic acids from *Sanguisorba minor*

Nahla A. Ayoub

Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

Two new phenolic acids, namely, 4,8-dimethoxy-7-hydroxy-2-oxo-2H-1-benzopyran-5,6-dicarboxylic acid; 2-(4-carboxy-3-methoxystyryl)-2-methoxysuccinic acid were isolated and identified from *Sanguisorba minor*.



Phytochemistry, 2003, 63, 433

Evariquinone, isoemicellin, and stromemycin from a sponge derived strain of the fungus *Emericella varicolor*

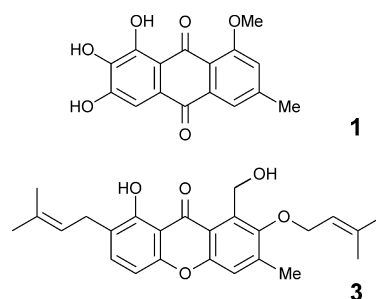
Gerhard Bringmann^a, Gerhard Lang^a, Stefan Steffens^b, Eckhard Günther^c, Karsten Schaumann^b

^aInstitut für Organische Chemie der Universität, Am Hubland, D-97074 Würzburg, Germany

^bAlfred-Wegener-Institut für Polar- und Meeresforschung, Am Handelshafen 12, D-27570 Bremerhaven, Germany

^cZentaris AG, Weismüllerstr. 45, D-60314 Frankfurt am Main, Germany

Evariquinone (**1**) and the new prenylxanthone isoemicellin (**3**) were isolated from *Emericella varicolor*. The configuration of the known metabolite stromemycin was investigated.



Two prenylated flavonoids from the stem bark of *Erythrina burttii*

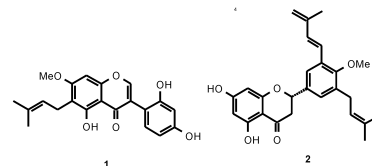
Phytochemistry, 2003, **63**, 445

Abiy Yenesew^a, Beatrice Irungu^a, Solomon Derese^a, Jacob O. Midiwo^a, Matthias Heydenreich^b, Martin G. Peter^b

^aDepartment of Chemistry, University of Nairobi, PO Box 30197, Nairobi, Kenya

^bInstitut für Chemie, Universität Potsdam, PO Box 60 15 53, D-14415 Potsdam, Germany

Two new prenylated flavonoids, **1** and **2**, along with three known compounds were isolated from the stem bark of *Erythrina burttii*. The structures were determined on the basis of spectroscopic evidence.



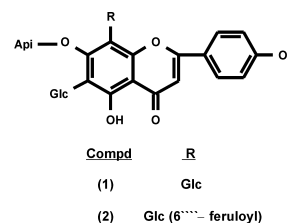
Flavone C-glycosides from *Lupinus hartwegii*

Phytochemistry, 2003, **63**, 449

Mohamed S. Kamel

Department of Pharmacognosy, Faculty of Pharmacy, Assiut University, Assiut 71526, Egypt

From the aerial parts of *L. hartwegii*, two new apigenin C-glycosides (**1,2**) were isolated and identified by MS and advanced NMR spectral techniques.



Phenolic constituents from *Drypetes armoracia*

Phytochemistry, 2003, **63**, 453

Jean Wandji^a, François Tillequin^b, Dulcie A. Mulholland^c, Agathe D. Temgoua^a, Jean-D. Wansi^a, Elisabeth Seguin^d, Z. Tanee Fomum^a

^aDepartment of Organic Chemistry, University of Yaoundé-1, Faculty of Science, P.O. Box 812 Yaoundé, Cameroon

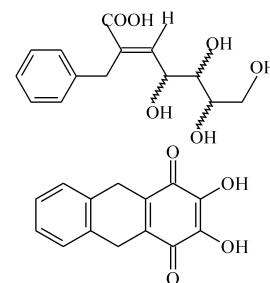
^bLaboratoire de Pharmacognosie, UMR/CNRS No-8638, Université René Descartes,

Faculté des Sciences Biologiques et Pharmaceutiques, 4-Avenue de l'Observatoire, Paris, France

^cDepartment of Chemistry, Natural Products Research Group, University of Natal, Durban, South Africa

^dLaboratoire de Pharmacognosie, UFR de Médecine Pharmacie Rouen, 22-Bld Gambetta, 76183 Rouen Cedex 1, France

Two compounds named drypeararmoraceins A and B have been isolated from *Drypetes armoracia*.



Flavonoids from *Andrographis lineata*

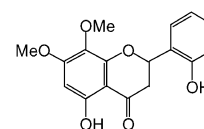
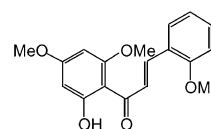
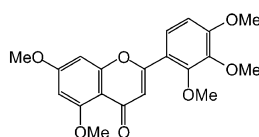
Phytochemistry, 2003, **63**, 457

P. Hari Kishore^a, M. Vijaya Bhaskar Reddy^a, M. Kesava Reddy^a, D. Gunasekar^a, Cristelle Caux^b, Bernard Bodo^b

^aNatural Products Division, Department of Chemistry, Sri Venkateswara University, Tirupati 517 502, India

^bLaboratoire de Chimie des Substances Naturelles, ESA 8041, CNRS, Museum National d'Histoire Naturelle, 63 rue Buffon, 75005, Paris, France

Three flavonoids, 5,7,2',3',4'-pentamethoxyflavone, 2'-hydroxy-2,4',6'-trimethoxychalcone and dihydroskullcapflavone I, together with seven known compounds were isolated from the whole plant of *Andrographis lineata*.



A flavonol tetraglycoside from *Sophora japonica* seeds

Jing-Hua Wang^a, Feng-Chang Lou^a, Ya-Lin Wang^b, Yu-Ping Tang^c

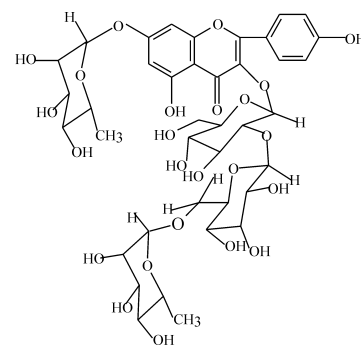
^aDepartment of Phytochemistry, China Pharmaceutical University, Nanjing 210038, China

^bYunnan Baiyao Pharm. Ltd. Co., Kunming 650032, China

^cShanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, China

Kaempferol 3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside-7-*O*- α -L-rhamnopyranoside, together with nine known compounds were isolated from the seeds of *Sophora japonica* L.

Phytochemistry, 2003, **63**, 463



Xanthenes from the bark of *Garcinia merguensis*

Lien-Hoa D. Nguyen^a, Hau T. Vo^a, Hung D. Pham^a, Joseph D. Connolly^b, Leslie J. Harrison^c

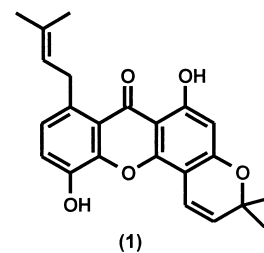
^aDepartment of Chemistry, College of Natural Sciences, National University of HoChiMinh City, 227 Nguyen Van Cu, HoChiMinh City, Vietnam

^bDepartment of Chemistry, University of Glasgow, Glasgow G12 8QQ, Scotland, UK

^cDepartment of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543, Republic of Singapore

Merguenone (**1**) and nine other xanthenes were isolated from the bark of *Garcinia merguensis* collected in Vietnam.

Phytochemistry, 2003, **63**, 467



Prenylated isoflavonoids from *Milletia pervilleana*

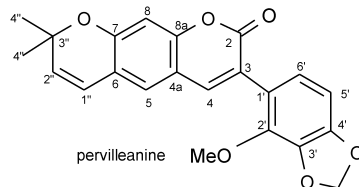
Giovanna Palazzino^a, Philippe Rasoanaivo^b, Elena Federici^a, Marcello Nicoletti^c, Corrado Galeffi^a

^aLaboratorio di Chimica del Farmaco, Istituto Superiore di Sanità, V. le Regina Elena 299, I-00161 Rome, Italy

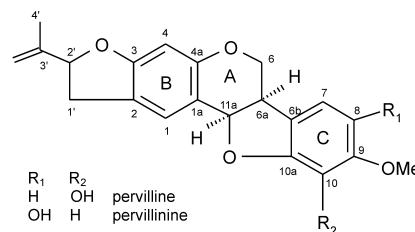
^bInstitut Malgache de Recherches Appliquées, Laboratoire de Phytochimie-Pharmacologie, B.P.3833, 101 Antananarivo, Madagascar

^cDipartimento di Farmacologia delle Sostanze Naturali e Fisiologia Generale, Università "La Sapienza", P. le A. Moro 5, I-00185 Rome, Italy

From the root bark of *Milletia pervilleana* a 3-phenylcoumarin, pervilleanine, and two pterocarpan, pervilline and pervillinine, were isolated. The anticancer activity of previously isolated pervilleanone and 3'-*O*-demethylpervilleanone is reported.



Phytochemistry, 2003, **63**, 471



Alkaloids from the seeds of *Sterculia lychnophora* (Pangdahai)

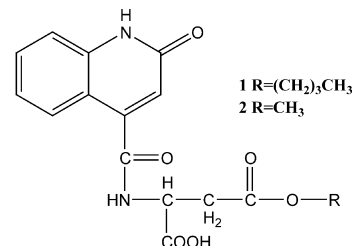
Ru-Feng Wang^a, Xiu-Wei Yang^a, Chao-Mei Ma^a, Ming-Ying Shang^a, Ji-Ye Liang^a, Xuan Wang^a, Shao-Qing Cai^{a,b}, Yukihiro Shoyama^b

^aDepartment of Natural Medicines, School of Pharmaceutical Sciences, Peking University, No. 38, Xueyuan Road, Beijing 100083, PR China

^bGraduate School of Pharmaceutical Sciences, Kyushu University, Fukuoka 812, Japan

Two alkaloids, named sterculinine I and sterculinine II, together with thirteen known compounds were isolated from the ethanol extract of the seeds of *Sterculia lychnophora*.

Phytochemistry, 2003, **63**, 475

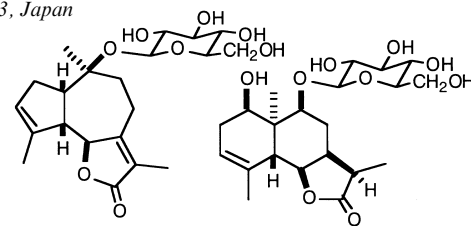


Sesquiterpene lactone glucosides and alkyl glycosides from the fruit of cumin

Tomomi Takayanagi, Toru Ishikawa, Junichi Kitajima

Showa Pharmaceutical University, Higashi-Tamagawagakuen 3, Machida, Tokyo 194-8543, Japan

(1*S*,5*S*,6*S*,10*S*)-10-hydroxyguaia-3,7(11)-dien-12,6-olide β -D-glucopyranoside, (1*R*,5*R*,6*S*,7*S*,9*S*,10*R*,11*R*)-1,9-dihydroxyeudesm-3-en-12,6-olide 9-*O*- β -D-glucopyranoside, methyl β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside and ethane-1,2-diol 1-*O*- β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside were isolated from the fruit of cumin.



Phytochemistry, 2003, 63, 479

Two acyl sucroses from *Petunia nyctaginiflora*

Ajay Pratap Singh^a, Ajit Kumar Singh^b, A. Sajeli Begum^b, Mahendra Sahai^b

^aSami Labs Ltd. 19/1 & 19/2, I Main II phase, Peenya Industrial area, Bangalore-58, India

^bDepartment of Medicinal Chemistry, IMS, Banaras Hindu University, Varanasi 221005, India

Two acyl sucroses were isolated from epigeal parts of *Petunia nyctaginiflora* and characterised as 2, 3, 4-tri (5-methylhexanoyl) sucrose and 2, 3, 4-tri (6-methylheptanoyl) sucrose.

Phytochemistry, 2003, 63, 485

P. nyctaginiflora
epigeal parts
↓
SiO₂; Column separation
↓
Elution, Derivatization
↓
Prep-HPLC purification
↓
Spectral analysis

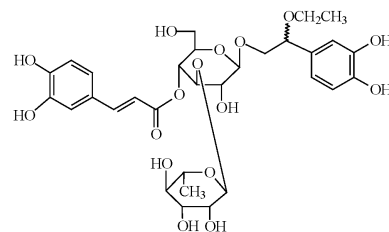
Phenylethanoid and aliphatic alcohol glycosides from *Acanthus ilicifolius*

Jun Wu^a, Si Zhang^a, Qiang Xiao^b, Qingxin Li^a, Jianshe Huang^a, Lijuan Long^a, Liangmin Huang^a

^aGuangdong Key Laboratory of Marine Materia Medica, South China Sea Institute of Oceanology, Chinese Academy of Sciences, 164 West Xingang Road, Guangzhou 510301, PR China

^bThe Key Laboratory of Bioorganic Phosphorus Chemistry, Ministry of Education, Department of Chemistry, School of Life Sciences and Engineering, Tsinghua University, Beijing 100084, PR China

A phenylethanoid glycoside (ilicifolioside A) and an aliphatic alcohol glycoside (ilicifolioside B) were isolated from the aerial parts of *Acanthus ilicifolius*, together with eight known compounds.



Phytochemistry, 2003, 63, 491

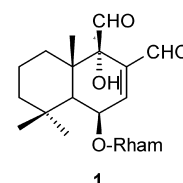
Flavonol and drimane-type sesquiterpene glycosides of *Warburgia stuhlmannii* leaves

Lawrence O. Arot Manguro^a, Ivar Ugi^b, Rudolf Hermann^b, Peter Lemmen^b

^aChemistry Department, Nairobi University, PO Box 30197, Nairobi, Kenya

^bTechnische Universitaet Muenchen, Institut fuer Organische Chemie und Biochemie, Lehrstuhl 1, Lichtenbergstrasse 4, 85747-Garching, Germany

The isolation and structure determination of two flavonol glycosides together with two drimane-type sesquiterpene glycosides including compound **1** from methanolic extract of *Warburgia stuhlmannii* leaves are described.



Phytochemistry, 2003, 63, 497