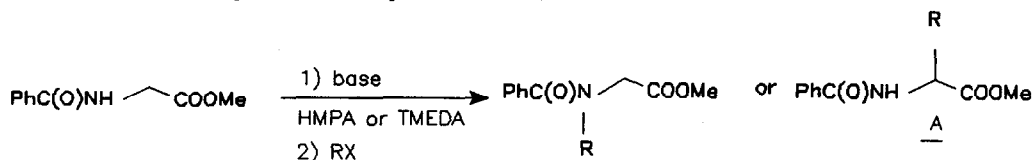


GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 6219

The Effect of Base and Additive on the Alkylation of Methyl Hippurate. John M. McIntosh, Rasiah Thangarasa, David J. Ager and Benxin Zhi, Department of Chemistry, University of Windsor, Windsor, Ontario, Canada N9B 3P4 and Nutrasweet Research and Development, 601 E. Kensington Road, Mt Prospect, Illinois, USA, 60056



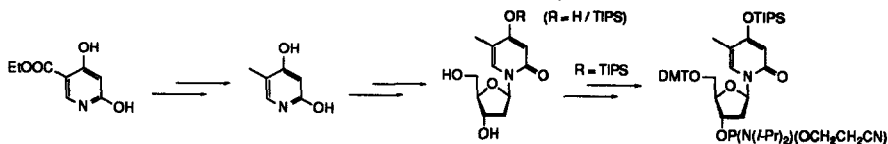
A only formed with 2 equiv. of base. HMPA is more effective than TMEDA.

Tetrahedron, 1992, 48, 6225

A NEW SYNTHESIS OF 3-DEAZATHYMININE AND OF A RELATED PHOSPHORAMIDITE SYNTHON

Harald Eschenhof, Peter Strazewski and Christoph Tamm*
Institut für Organische Chemie der Universität, CH-4056 Basel, Switzerland

A new synthesis of 3-deazathymine, 3-deazathymidine and the preparation of the corresponding 4-O-triisopropylphenylsulfonyl (TIPS) protected phosphoramidite synthon for the oligonucleotide synthesis is presented.

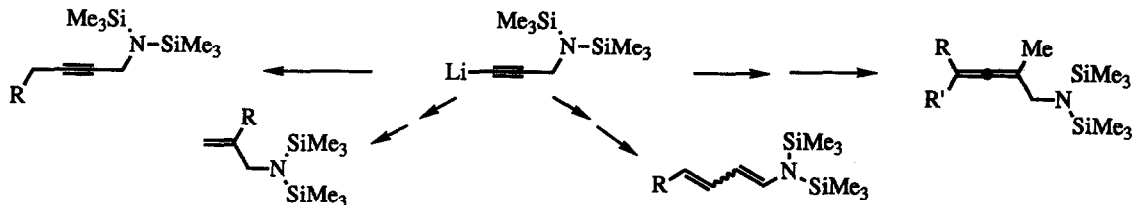


Tetrahedron, 1992, 48, 6231

SILYLAMINES IN ORGANIC SYNTHESIS. FACILE SYNTHETIC ROUTES TO UNSATURATED PROTECTED PRIMARY AMINES.

Robert J.P. Corriu*, Vilam Huynh, Javed Iqbal, Joël J.E. Moreau* and Claude Vernhet.

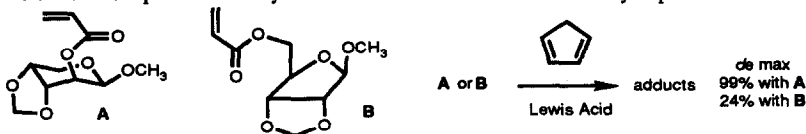
Unité associée au CNRS N°1097, Université de Montpellier II, Sciences et Techniques du Languedoc, F-34095 Montpellier Cedex 05- France



Induction Asymétrique dans la Réaction de Diels-Alder du Cyclopentadiène sur des Dérivés Acryliques de O-méthylèneacétals de l'Arabinose et du Ribose

Robert NOUGUIER^a, Jean-Louis GRAS^b, Bouchra GIRAUD^a, Albert VIRGILI^c.
 a) Laboratoire de Chimie Organique B, b) Laboratoire de Synthèse Organique, Faculté des Sciences de Saint Jérôme, Av. Normandie Niemen, 13397 Marseille France. c) Unitat de Química Orgànica, Universitat Autònoma de Barcelona, 08193, Bellaterra Spain.

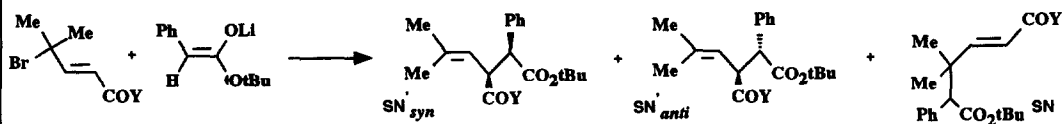
The acrylate of methyl 3,4-O-methylene-β-D-arabinopyranoside (A) and of methyl 2,3-O-methylene-β-D-ribofuranoside (B) have been used as chiral dienophile in the asymmetric Diels-Alder reactions with cyclopentadiene.



Reaction of Phenylacetate Enolates with γ-bromo-α,β-Unsaturated Derivatives: Diastereo- and Enantioselective Allylic Substitution

Anne-Françoise SEVIN^a, Jacqueline SEYDEN-PENNE^a and Kamal BOUBEKEUR^b. a) Laboratoire des Carbocycles, associé au CNRS, I.C.M.O. Bat.420, Université Paris-Sud 91405 ORSAY (France). b) Laboratoire de Physique des solides, Bat.510, Université Paris-Sud 91405 ORSAY (France).

The following reaction is regio- and stereoselective, favoring the SN_{anti}' compound, provided that $Y=Ot.Bu$ or $O-2$ -phenyl-cyclohexyl. When using chiral 2-phenylcyclohexylester, the asymmetric induction level is high (>95%).



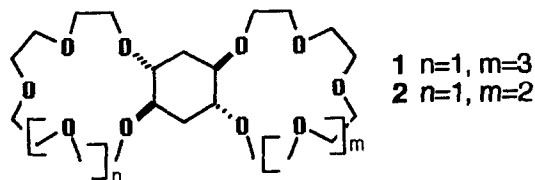
BIS-CYCLOHEXYL-CROWN-ETHERS AS ALLOSTERIC CARRIERS

Ana M. Costero* and Santiago Rodríguez

Dept. de Química Orgànica, Facultad de Farmacia, Universidad de Valencia.

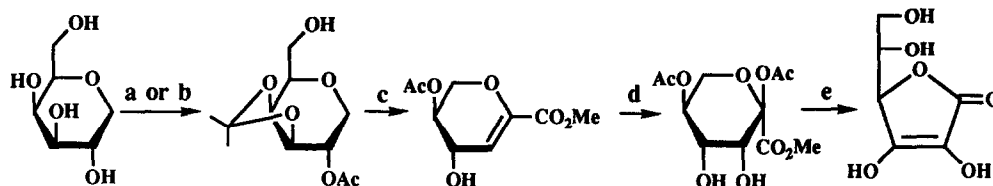
Blasco Ibañez, 13. E- 46010-Valencia. Spain

Several bis-cyclohexyl-crown-ethers have been synthesized and used as carrier for alkaline cations. All these compounds could show a negative allosteric cooperativity.



A NEW SYNTHESIS OF L-ASCORBIC ACID FROM D-GALACTOSE

P.L. Barili, G. Berti, F. D'Andrea, V. Di Bussolo, I. Granucci - University of Pisa (Italy)



a) DMP/CSA; Ac₂O/Py; MeOH/AcOH. b) DMP/CSA; MeOH/AcOH; TrCl/Py; Ac₂O/Py; H₂/Pd.
c) DMSO/(COCl)₂/Et₃N; NaClO₂; CH₂N₂. d) MCPBA/AcOH. e) MeONa; HCl.

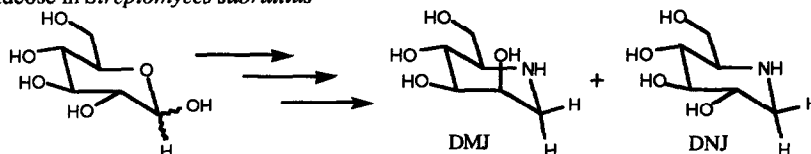
All products fully characterized by ¹H and ¹³C NMR

GLUCOSE IS A PRECURSOR OF 1-DEOXYNOJIRIMYCIN

AND 1-DEOXYMANNO-NOJIRIMYCIN IN *STREPTOMYCES SUBRUTILUS*

David J. Hardick,^a David W. Hutchinson,^a Sally J. Trew^a and Elizabeth M. H. Wellington^b; ^aChemistry Department and ^bDepartment of Biological Sciences, University of Warwick, Coventry CV4 7AL, UK

A C1 to C6 inversion occurs during the biosynthesis of 1-deoxynojirimycin (DNJ) and 1-deoxymannonojirimycin (DMJ) from glucose in *Streptomyces subrutilus*



Synthesis of a Pentasaccharide and a Heptasaccharide Corresponding to an Ovarian Glycoprotein; Studies Towards Glycosylations

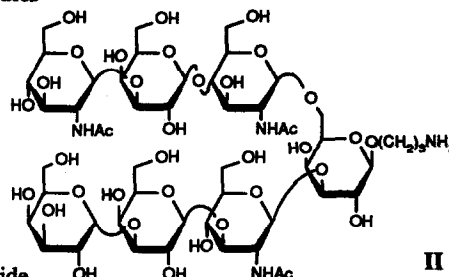
Nynke M. Spijker, Pieter Westerduin and

Constant A.A. van Boeckel

Organon International B.V.,

Scientific Development Group, P.O. Box 20,

5340 BH Oss, The Netherlands



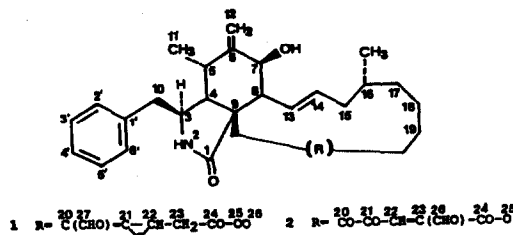
II

The syntheses of a heptasaccharide (II) and a pentasaccharide fragment of an ovarian glycoprotein are described.

CYTOCHALASINS U AND V, TWO NEW CYTOCHALASANS FROM *PHOMA EXIGUA* VAR. *HETEROMORPHA*

A. Evidente^a, R. Lanzetta^a, G. Capasso^a,
A. Bottalico^b and M. Vurro^b
^aUniversità di Napoli and ^bIstituto
Tossine e Micotossine, CNR, Bari, Italy

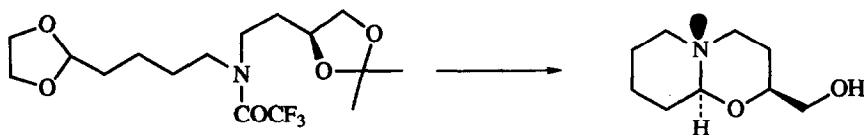
Abstract. Cytochalasins U (1) and V (2) were isolated from *Phoma exigua* var. *heteromorpha* and characterized as a new 25,26-dioxa[16] and 25-oxa[15]cytochalasan, respectively.



Synthesis of 2-Hydroxymethyl-1-oxaquinolizidine

Lena Börjesson and Christopher J Welch

Department of Organic Pharmaceutical Chemistry, Uppsala Biomedical Centre, Box 574, Uppsala University, S-751 23 Uppsala, Sweden.



REACTIONS OF HYDROXYLAMINES WITH ETHYL CYANOFORMATE. PREPARATION OF AMINONITRONES AND THEIR SYNTHETIC APPLICATIONS.

Paula S. Branco^a, Sundaresan Prabhakar^{a*}, Ana M. Lobo^a and David J. Williams^b. a) Secção de Química Orgânica Aplicada, Departamento de Química, and SINTOR-UNINOVA, Campus FCT-UNL Quinta da Torre, 2825 Monte da Caparica and Centro de Química Estrutural, Complexo I, INIC, Av. Rovisco Pais, 1096 Lisboa Codex, Portugal. b) Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, UK.

The α -aminonitrones formed by reaction of hydroxylamines and ethyl cyanoformate are useful compounds in the preparation of different nitrogen heterocyclic systems.

